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PURE IRON

# = class, where 1 = CRM and 2 = RM

T = total

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	Co	N	O
1	SRM 1265a	0.0067	0.0057	0.0011	0.0055	0.008	0.0058	0.041	0.007	0.0050	(0.0007)	0.007	.	.
1	<b>BS 50F</b>	0.0064	0.082	0.0066	0.0031	0.016	0.0088	0.016	0.022	0.0017	0.003	0.0023	0.0042	(0.0026)
2	CZ LA-0A	(0.006)	0.045	0.005	0.005	0.0015	0.012	0.028	0.022	(0.0044)	0.0015	0.002	0.0023	.
1	VS RG31	0.0035	0.0010	0.0015	.	0.009	0.010	0.0046	0.0016	0.0003	.	0.0007	.	.
2	TL 1669 *	0.00226	0.0955	0.0137	0.0100	0.0093	0.0217	0.0160	0.0246	0.0011	0.03553T	0.0019	0.0024	.
2	TH 1045D	0.0023	.	.	0.0043	.	.	.	.	.	.	.	0.0046	.
1	VS RG24/1	0.0022	0.015	0.0027	0.0069	0.017	0.011	0.037	0.037	0.0013	.	0.012	.	.
1	<b>BS LC-6</b>	0.0020	0.469	0.0007	0.0009	0.050	0.0003	0.0057	0.0023	(0.0006)	0.034	0.0021	0.0003	0.0007
1	SRM 1768	0.0010	0.0014	0.0013	0.0003	.	0.0006	0.0014	.	.	0.0024	0.0025	0.002	0.036
1	ECRM 098-1D	0.00051	0.00008	(0.00006)	0.00031	0.00048	.	.	0.00571	0.00085	.	.	0.00024	.
1	ECRM 097-1D	(<0.002)	0.0064	0.0022	0.0022	(<0.01)	0.0020	0.0025	0.0016	(<0.001)	.	0.0037	0.0007	.
1	ECRM 097-2D	.	0.012	0.00538	0.00181	0.00285	0.00793	0.0241	0.0213	0.00370	.	0.0139	0.00294	.

Number	As	B	Mg	Nb	Pb	Sn	Ti	V	W	Units
SRM 1265a	(0.0002)	0.00013	.	.	0.00001	.	(0.0001)	0.0006	.	disc 32 mm Ø x 19 mm
<b>BS 50F</b>	0.0013	(<0.0002)	(<0.0001)	(<0.0002)	(<0.0003)	0.0010	0.0004	(0.0003)	(<0.0050)	disc 35 mm Ø x -7 or 19+ mm <b>17025</b>
CZ LA-0A	(0.0015)	.	.	Sb:(0.0007)	(0.001)	(0.001)	0.001	.	.	disc -37 mm Ø x 25 mm
VS RG31	.	.	.	.	.	.	.	.	.	disc -45 mm Ø x -28mm
TL 1669 *	0.0017	0.00038	.	0.00046	0.00013	0.0071	0.0504	(0.0006)	.	disc 38 mm Ø x 25 mm
TH 1045D	.	.	.	.	.	.	.	.	.	disc 40 mm Ø x 40 mm
VS RG24/1	.	.	.	.	.	.	0.0010	.	.	disc -45 mm Ø x -28mm
<b>BS LC-6</b>	(<0.0020)	(0.0004)	(0.00003)	(<0.0010)	(<0.0020)	(<0.0020)	0.0006	(<0.0010)	(<0.0050)	disc 39 mm Ø x -7 or 19+ mm <b>17025</b>
SRM 1768	.	.	.	.	.	.	.	.	.	disc 31 mm Ø x 19 mm
ECRM 098-1D	.	.	.	.	.	.	.	.	.	octagon 35 mm Ø x 25 mm
ECRM 097-1D	0.0051	0.0003	.	.	.	(<0.0025)	.	(<0.001)	.	disc 38 mm Ø x 3, 25, or 30 mm
ECRM 097-2D	0.00281	0.00012	Sb:0.00012	Ta:0.00015	Zn:0.00014	0.00043	.	0.00011	0.00386	disc 38 mm Ø x 25 or 30 mm

\* TL-1669 also contains in ppm Ca: 1.7, Sb: 4.9, Zn: 2.7

RM CARBON STEEL XRF SET

Part Number: BS CS-10 AVAILABLE INDIVIDUALLY **17025** ~7 mm discs

Grade	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	As	Co	N	Sn	V
Pure Iron	<b>BS 50F</b>	0.0064	0.082	0.0066	0.0031	0.016	0.0088	0.016	0.022	0.0017	0.003	0.0013	0.0023	0.0042	0.0010	(0.0003)
1008	BS XAAS	0.041	0.430	0.007	0.010	0.045	0.015	0.023	0.020	0.007	0.006	0.005	0.004	0.0037	<0.002	<0.005
1018	BS 2931	0.202	0.75	0.012	0.025	0.23	0.23	0.106	0.154	0.019	0.002	0.007	0.009	0.0119	0.010	0.002
1020	BS 57F	0.196	0.554	0.009	0.027	0.202	0.197	0.070	0.120	0.018	(0.002)	(0.006)	0.007	0.0077	0.008	0.063
1026	BS 4932	0.234	0.76	0.010	0.015	0.25	0.15	0.080	0.144	0.033	(0.001)	(0.005)	0.005	0.0080	0.008	0.060
1035	BS 4931	0.352	0.80	0.011	0.016	0.27	0.217	0.070	0.093	0.024	(0.001)	0.005	0.006	0.0080	0.009	0.058
1040	<b>BS 3941</b>	0.407	0.802	0.016	0.023	0.257	0.053	0.018	0.069	0.0061	0.0019	0.0036	0.0042	0.0069	0.0019	0.0025
1045	BS 56E	0.483	0.72	0.010	0.025	0.24	0.015	0.015	0.021	0.005	0.062	0.0035	0.005	0.0056	(0.0006)	(<0.002)
1095	BS 64C	0.920	0.22	0.015	0.0024	0.22	0.016	0.038	0.261	0.008	(0.005)	.	0.004	0.0084	(0.001)	0.005
1522 (LF2)	BS 2932	0.208	1.20	0.008	0.020	0.186	0.060	0.034	0.077	0.026	0.022	(0.003)	0.004	0.0080	0.005	0.001

CRM CARBON STEEL SET

AVAILABLE IN SET/6 ONLY

38 mm Ø x 30 mm

Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Al.Sol	Ti	Ti.Sol	V
NCS HS11719-5	1.19	2.20	0.011	0.013	0.751	0.046	0.164	0.439	0.036	0.034	0.029	0.028	0.0082
NCS HS11719-1	0.963	0.586	0.022	0.010	0.241	0.111	0.206	0.131	0.019	0.017	0.016	0.015	0.035
NCS HS11719-3	0.435	1.14	0.045	0.020	0.163	0.160	0.114	0.086	0.019	0.016	0.024	0.023	0.099
NCS HS11719-4	0.140	1.30	0.084	0.020	0.526	0.276	0.344	0.198	0.160	0.155	0.132	0.128	0.153
NCS HS11719-2	0.042	0.048	0.105	0.0053	0.154	0.411	0.432	0.247	0.296	0.292	0.161	0.154	0.207
NCS HS11719-6	0.0060	0.163	0.0053	0.035	0.014	0.0032	0.013	0.021	0.0021	0.0016	0.0010	(0.0008)	0.363

CRM SOLUBLE ALUMINUM AND SOLUBLE BORON STEEL SET

available in set/6 only as grouped .T = total .S = soluble

37 mm Ø x 30 mm

Number	Al.T	Al.S	B.T	B.S	C	Mn	P	S	Si	Cu	Ni	Cr	Co	Mo
NCS HS93703-1	0.387	0.381	0.025	0.023	1.08	2.35	0.0057	(0.008)	0.681	0.048	0.028	3.98	0.0047	0.0077
NCS HS93703-2	0.92	0.91	0.0083	0.0080	0.055	0.021	0.027	0.0033	0.827	0.422	1.09	3.09	0.262	1.56
NCS HS93703-3	0.107	0.103	0.0041	0.0037	0.792	1.34	0.013	0.038	1.09	0.532	0.533	2.11	0.488	0.397
NCS HS93703-4	0.083	0.078	0.0050	0.0048	0.475	0.612	0.015	0.015	2.57	0.687	2.01	1.31	0.403	0.977
NCS HS93703-5	(1.29)	(1.27)	0.0017	0.0015	0.651	1.53	0.036	0.0052	0.024	0.236	2.98	0.021	0.094	0.631
NCS HS93703-6	0.64	0.63	0.0033	0.0030	0.246	0.211	0.045	0.0058	0.274	0.092	3.83	0.505	0.145	0.203

Number	As	Bi	Ca	Nb	Pb	Sb	Sn	Ti	V	W	Zr
NCS HS93703-1	0.032	0.0011	0.0009	0.351	0.0016	(0.0001)	0.014	0.473	0.0090	0.293	0.0031
NCS HS93703-2	0.0034	0.0006	0.0010	0.254	0.0008	0.0020	0.0069	0.346	0.376	1.97	0.087
NCS HS93703-3	0.0019	0.0004	0.0010	0.506	0.0007	0.0040	0.054	0.016	0.071	0.755	0.014
NCS HS93703-4	0.056	(0.0002)	(0.0001)	0.167	0.0006	0.0095	0.012	0.035	0.709	1.48	0.069
NCS HS93703-5	0.0064	0.0015	0.0007	0.0057	0.0007	0.010	0.015	0.111	0.231	0.050	0.41
NCS HS93703-6	0.011	(0.0002)	(0.0001)	0.070	0.0011	0.0006	0.017	0.246	0.526	1.04	0.22

## CARBON STEEL

## CONTINUED ON THE NEXT PAGE

# = Class, where 1 = CRM and 2 = RM

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Als	As	B	Ca	Co	Mo
1	IRSID 1660	1.20	0.280	0.014	0.010	0.173	0.059	0.072	(0.026)	(0.009)	.	.	.	.	.	.
1	ECRM 090-1D	1.05	0.226	0.013	0.0095	0.281	0.059	0.053	0.121	.	.	.	.	.	.	0.009
1	SRM 1227	0.97	0.402	0.014	0.026	0.215	0.006	0.007	0.019	.	.	.	.	.	0.003	0.003
1	SS 602/2	0.94	0.66	0.023	0.031	0.057	(0.06)	(0.02)	(0.03)	0.096	.	.	.	.	(0.007)	(0.004)
2	BS 64C	0.920	0.22	0.015	0.0024	0.22	0.016	0.038	0.261	(0.005)	.	.	.	.	0.004	0.008
2	HRT FE2014-N	0.91	1.97	0.012	(0.004)	0.24	0.01	0.02	0.35	0.016	.	.	.	.	.	0.01
1	ECRM 056-2D	0.8181	0.5073	0.0103	0.0093	0.2006	0.0129	0.0218	0.0146	.	0.00024	.	.	.	.	.
1	SRM 1224	0.75	0.41	0.009	0.039	0.173	0.072	0.054	0.071	0.060	.	.	.	.	.	0.013
1	VS RG28	0.70	0.84	0.031	.	1.161	0.050	0.154	0.135	0.066	.	.	.	.	.	0.090
1	VS RG28/1	0.68	0.91	0.031	0.0071	2.36	0.040	0.168	0.194	0.068	.	.	.	.	0.072	0.104
1	IARM 373A	0.63	0.70	0.0123	0.031	0.22	0.107	0.048	0.096	0.002	.	0.0046	0.0003	0.0005	0.005	0.0176
1	VS UG20/6	0.58	0.473	(0.008)	(0.02)	0.229	0.249	0.360	0.396	.	.	.	.	.	.	.
1	NM 3405.01	0.57	0.80	0.037	0.048	0.19	.	0.031	0.081	.	.	.	.	.	.	.
1	SS 435/1	0.52	0.41	0.033	0.031	0.54	.	0.060	0.14	.	.	.	.	.	.	.
1	SS 435/2	0.49	0.39	0.04	0.042	0.32	.	0.13	0.18	.	.	.	.	.	0.011	.
2	BS 56E	0.483	0.72	0.010	0.025	0.24	0.015	0.015	0.021	0.062	.	0.0035	.	(<0.0005)	0.005	0.005
1	IRSID 1636	0.47	0.78	0.029	0.037	0.40	0.135	0.092	(0.060)	(0.007)	.	.	.	.	.	.
1	SS 459/2	0.467	0.909	0.0482	0.0481	0.640	.	.	0.015	(0.013)	.	0.0110	.	.	0.0890	.
1	BS 56H	0.457	0.772	0.0096	0.0234	0.210	0.299	0.154	0.098	0.0009	.	0.0056	0.0002	0.0012	0.0078	0.0419
1	VS UG123	0.45	0.552	0.016	0.026	0.216	0.196	0.084	0.111	0.024	.	.	.	.	.	.
1	IRSID 1657	0.445	0.724	0.028	(0.013)	0.274	.	0.048	(0.022)	0.004	.	0.0051	.	.	.	(0.008)
1	IRSID 1648	0.432	1.41	0.031	(0.070)	0.242	0.408	0.165	0.170	(0.004)	.	(0.038)	.	.	.	(0.028)
1	12X 10400A	0.420	0.754	0.0137	0.0305	0.220	0.140	0.0631	0.139	0.0323	.	0.0068	.	.	.	0.0169
1	NM EN-8	0.42	0.82	0.02	0.02	0.21	.	.	.	.	.	.	.	.	.	.
1	IRSID 1642	0.418	0.929	0.031	(0.031)	0.388	0.097	0.068	(0.035)	(0.020)	.	(0.042)	.	.	.	(0.009)
1	IRSID 1647	0.418	0.701	0.019	(0.027)	0.299	(0.104)	0.093	0.490	(0.060)	(0.0555)	.	.	.	.	.
1	IRSID 1646	0.414	0.701	0.020	0.027	0.293	0.104	0.093	0.493	0.056	.	.	.	.	.	.
1	IARM 210D	0.412	0.73	0.0052	0.030	0.230	0.273	0.122	0.096	(0.002)	.	0.0059	0.0004	0.0009	0.007	0.034
1	SS 434/1	0.41	1.49	0.050	0.027	0.31	.	0.044	0.055	.	.	.	.	.	.	.
1	IARM 349A	0.41	1.49	0.011	0.025	0.192	0.300	0.178	0.189	0.0020	.	0.005	0.0003	0.0015	0.0085	0.059
1	BS 3941	0.407	0.802	0.016	0.023	0.257	0.053	0.018	0.069	0.0019	.	0.0036	(0.0001)	0.0011	0.0042	0.0061
1	IRSID 1652	0.406	0.931	(0.017)	0.040	0.386	0.345	0.190	0.184	.	(0.0013)	0.038	.	.	.	(0.042)
1	IRSID 1637	0.401	0.940	0.030	0.030	0.378	0.097	0.068	(0.033)	0.022	.	0.042	.	.	.	(0.006)
1	SS 605/2	0.400	0.345	0.054	0.015	0.54	(0.06)	(0.05)	(0.06)	0.027	.	.	.	.	(0.008)	(0.01)
1	IRSID 1644	0.394	0.594	0.021	0.031	0.287	0.265	0.158	0.138	(0.017)	.	.	.	.	.	.
1	ECRM 084-1D	0.391	0.860	.	0.029	0.265	0.267	0.154	.	.	.	.	.	.	.	0.033
1	IRSID 1645	0.388	0.610	0.021	0.030	0.286	0.261	0.157	0.140	0.015	(0.0124)	.	.	.	.	.
1	IRSID 1649	0.384	0.930	0.045	(0.047)	0.250	0.418	0.226	0.321	0.004	.	0.037	.	.	.	0.043
1	SS 460/2	0.383	0.616	0.0374	0.0099	0.126	.	.	.	0.024	(0.019)	.	0.0027	.	0.0106	.
1	VS RG30	0.38	0.357	.	0.013	0.45	0.161	0.62	3.06	.	.	.	.	.	0.50	0.62
#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Als	As	B	Ca	Co	Mo
1	IRSID 1655	0.355	1.018	(0.018)	(0.060)	0.443	0.415	0.188	0.157	(0.004)	.	(0.036)	.	.	.	(0.043)
1	IRSID 1663	0.353	0.967	0.0090	0.034	0.235	0.180	0.148	0.206	0.037	.	0.028	.	.	.	0.042
1	VS UG90	0.34	0.286	0.0079	0.012	0.221	0.200	0.265	0.261	0.037	0.032	0.0044	.	.	.	0.046
1	VS UG19/6	0.34	0.274	(0.03)	(0.03)	0.136	0.148	0.262	0.227	.	.	.	.	.	.	.
1	IARM 360A	0.331	0.733	0.008	0.023	0.260	0.235	0.078	0.113	0.0016	.	0.0060	0.0004	0.0017	0.0067	0.024
1	BS 1030	0.331	0.682	0.0101	0.0299	0.261	0.269	0.078	0.124	0.0014	.	0.0055	0.0003	0.0012	0.0069	0.0182
1	IARM 209D	0.322	0.68	0.0084	0.021	0.268	0.243	0.079	0.137	(0.003)	.	0.0060	0.0002	0.002	0.007	0.037
1	IRSID 1653	0.312	0.962	0.034	(0.039)	0.400	0.453	0.218	0.358	<0.004	.	(0.039)	.	.	.	(0.038)
1	VS RG27	0.30	0.97	0.054	0.0032	0.42	0.188	0.135	1.53	0.88	.	.	.	.	0.071	0.222
1	IRSID 1654	0.270	0.979	0.036	(0.047)	0.354	0.441	0.241	0.328	.	.	0.040	.	.	.	(0.043)
1	SS 434/2	0.27	1.54	0.06	0.014	0.51	.	0.038	0.24	.	.	.	.	.	.	.
1	IARM 359A	0.267	0.686	0.0094	0.020	0.233	0.186	0.068	0.121	0.002	.	0.0073	0.0003	0.0013	0.0069	0.023
1	BS 1026	0.260	0.715	0.0171	0.0191	0.268	0.247	0.096	0.163	0.0330	.	0.0100	(0.0002)	0.0017	0.0072	0.0289
1	VS UG94	0.26	0.186	0.0037	0.0026	0.101	0.088	0.178	0.206	0.017	.	.	.	.	.	0.0005
1	VS UG18/6	0.242	0.213	(0.003)	(0.003)	0.20	0.063	0.273	0.237	.	.	.	.	.	.	.
2	HRT FE2016-N	0.23	0.85	0.015	0.011	0.32	0.02	0.15	0.21	0.033	.	.	.	.	.	.
1	BS 1020	0.210	0.568	0.0058	0.0249	0.250	0.184	0.059	0.109	0.0006	.	0.0074	(0.0001)	0.0022	0.0070	0.018
1	IARM 213C	0.201	0.922	0.007	0.025	0.25	0.149	0.068	0.099	0.0019	.	0.0058	0.0003	0.0014	0.0074	0.022
1	IRSID 1664	0.2008	0.472	0.0106	0.0259	0.0616	0.0820	0.0547	0.0707	.	0.0193	0.0115	(0.0002)	(0.0005)	(0.0084)	0.0157
1	VS RG25/1	0.196	0.29	0.019	0.0088	0.100	0.065	0.037	0.060	0.067	.	.	.	.	0.012	0.010
1	BS 1018 *	0.19	0.80	0.013	0.026	0.23	0.13	0.11	0.18	0.03	.	<0.005	<0.005	<0.005	<0.05	0.05
1	BS LF2B	0.176	1.05	0.007	0.0067	0.209	0.318	0.115	0.138	0.0287	.	0.0052	(0.0002)	0.0010	0.0071	0.0382
1	12X 10180C	0.171	0.803	0.0150	0.0200	0.147	0.0500	0.0284	0.0793	0.0198	.	0.0029	.	.	.	0.0047
1	BS 1016 *	0.17	0.77	0.01	0.03	0.19	0.15	0.11	0.09	0.02	.	0.006	<0.005	<0.005	0.02	0.04
1	NM 3404.01	0.17	0.66	0.025	0.021	0.19	.	0.007	0.010	.	.	.	.	.	.	.
1	12X 10180B	0.169	0.722	0.0101	0.0056	0.114	0.0544	0.0333	0.0451	0.043	.	0.0059	.	.	.	0.0062
1	VS RG25	0.167	0.131	0.014	.	0.084	.	0.046	0.057	0.015	.	.	.	.	.	0.0028
1	VS UG124	0.165	1.41	0.019	0.032	0.384	0.020	0.015	0.035	0.039	.	.	.	.	.	.
1	VS UG109	0.161	0.353	0.020	0.0037	0.151	0.082	0.0053	0.048	0.0093	.	.	.	.	.	.
1	BS 2931B	0.159	0.788	0.0108	0.0292	0.207	0.098	0.083	0.080	0.0191	.	0.0033	0.0002	0.0002	0.0056	0.0329
1	SS 456/2	0.112	0.220	0.0212	0.0221	0.297	.	.	.	0.0017	(0.0013)	.	0.0015	.	0.0504	.
1	DSZU C041	0.107	1.35	0.0126	0.0055	0.63	0.059	0.040	0.067	0.017	.					

## CARBON STEEL CONTINUED FROM THE PREVIOUS PAGE

Number	N	Nb	O	Pb	Sb	Sn	Ti	V	W	Zn	Zr	Units
IRSID 1660	.	.	.	.	.	.	.	.	.	.	.	37 mm Ø x 30 mm
ECRM 090-1D	0.0146	0.00043	.	0.00239	0.00090	.	.	0.204	.	0.00209	.	38 mm Ø x 25 or 30 mm
SRM 1227	.	.	.	.	.	.	.	0.002	.	.	.	32 mm Ø x 19 mm
SS 602/2	.	.	.	.	.	.	.	(0.001)	.	.	(<0.005)	44 mm Ø x 19 mm
BS 64C	0.0084	(<0.003)	.	.	.	(0.001)	(0.002)	0.005	.	.	.	44 mm Ø x ~7 or 19+ mm
HRT FE2014-N	0.0052	.	.	.	.	.	.	0.066	.	.	.	~35mm Ø x 20 mm
ECRM 056-2D	.	.	.	.	.	.	.	.	.	.	.	44 mm Ø x 25 or 30 mm
SRM 1224	.	.	.	.	.	.	.	0.002	.	.	.	32 mm Ø x 19 mm
VS RG28	.	0.029	.	.	.	.	0.0041	0.022	0.006	.	.	~45 mm Ø x ~28mm
VS RG28/1	.	0.041	.	.	.	.	0.022	0.035	0.0041	.	.	~45 mm Ø x ~28mm
IARM 373A	0.0088	0.001	0.002	(0.001)	(0.002)	0.0069	0.0017	0.023	(0.002)	(0.003)	(0.003)	31 mm Ø x 2 or 18 mm
VS UG20/6	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
NM 3405.01	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 20 mm
SS 435/1	.	0.039	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
SS 435/2	.	0.13	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
BS 56E	0.0056	(<0.002)	.	(0.0001)	0.0004	(0.0006)	(0.001)	(<0.002)	.	.	.	44 mm Ø x ~7 or 19+ mm
IRSID 1636	.	.	.	.	.	.	.	.	.	.	.	48 mm Ø x 30 mm
SS 459/2	.	0.0102	.	0.0044	0.0121	.	.	0.0585	.	.	(0.074)	38 mm Ø x 19 mm
BS 56H	0.0106	0.0009	0.0025	0.0004	0.0025	0.0124	0.0009	0.0295	0.0007	Ta:0.0011	0.0007	38 mm Ø x ~7 or 19+mm <b>17025</b>
VS UG123	0.0078	.	.	.	.	.	.	0.0019	.	.	.	~45 mm Ø x ~28mm
IRSID 1657	.	.	.	.	.	.	.	(0.001)	.	.	.	42 mm Ø x 30 mm
IRSID 1648	.	.	.	.	.	0.033	.	.	.	.	.	40 mm Ø x 28 mm
12X 10400A	0.0133	.	.	.	.	0.0127	.	.	.	0.0033	.	~40 mm Ø x ~15 mm
NM EN-8	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 20 mm
IRSID 1642	.	.	.	.	.	.	.	(0.002)	.	.	.	45 mm Ø x 30 mm
IRSID 1647	.	.	.	.	.	.	.	.	.	.	.	41 mm Ø x 30 mm
IRSID 1646	.	.	.	.	.	.	.	.	.	.	.	42 mm Ø x 30 mm
IARM 210D	0.011	0.001	0.0034	0.001	0.002	0.010	0.0104	0.024	(0.002)	.	(0.001)	31 mm Ø x 2 or 18 mm
SS 434/1	.	0.078	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
IARM 349A	0.0100	0.0012	0.003	(0.001)	(0.003)	0.015	0.0013	0.027	0.004	(0.003)	(0.002)	31 mm Ø x 2 or 18 mm
BS 3941	0.0069	0.033	0.0055	0.0010	0.0005	0.0019	0.0017	0.0025	(0.0004)	.	(0.0003)	41 mm Ø x ~7 or 19+ mm <b>17025</b>
IRSID 1652	.	.	.	.	.	0.030	.	.	.	.	.	45 mm Ø x 30 mm
IRSID 1637	.	.	.	.	.	.	.	(0.002)	.	.	.	45 mm Ø x 30 mm
SS 605/2	.	.	.	.	.	.	.	(0.001)	.	.	(0.12)	44 mm Ø x 19 mm
IRSID 1644	.	.	.	.	.	.	.	.	.	.	.	45 mm Ø x 30 mm
ECRM 084-1D	.	.	.	.	.	0.023	.	.	.	.	.	38 mm Ø x 25 or 30 mm
IRSID 1645	.	.	.	.	.	.	.	.	.	.	.	45 mm Ø x 30 mm
IRSID 1649	.	.	.	.	.	0.028	.	.	.	.	.	40 mm Ø x 28 mm
SS 460/2	.	0.068	.	0.0005	(0.0006)	.	.	0.0322	.	.	(<0.0005)	38 mm Ø x 19 mm
VS RG30	.	0.139	.	.	.	.	.	0.63	0.91	.	.	~45 mm Ø x ~28mm
Number	N	Nb	O	Pb	Sb	Sn	Ti	V	W	Zn	Zr	Units
IRSID 1655	.	.	.	.	.	0.046	.	.	.	.	.	40 mm Ø x 34 mm
IRSID 1663	.	.	.	.	.	0.0143	0.051	.	.	.	.	44 mm Ø x 30 mm
VS UG90	0.015	.	.	.	0.0011	.	0.039	.	.	.	.	~47 mm Ø x ~30 mm
VS UG19/6	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
IARM 360A	0.0102	0.0015	0.004	(0.001)	0.0023	0.010	0.0010	0.039	(0.001)	(0.003)	(0.001)	31 mm Ø x 2 or 18 mm
BS 1030	0.0107	(0.0004)	0.005	0.0005	0.0024	0.0114	0.0005	0.031	0.0012	.	(0.0002)	38 mm Ø x ~7 or 19+ mm <b>17025</b>
IARM 209D	0.0107	0.0014	0.005	0.001	0.004	0.012	0.0011	0.042	(0.002)	(0.003)	.	31 mm Ø x 2 or 18 mm
IRSID 1653	.	.	.	.	.	0.066	.	.	.	.	.	40 mm Ø x 34 mm
VS RG27	.	.	.	.	.	.	.	0.064	0.170	.	.	~45 mm Ø x ~28mm
IRSID 1654	.	.	.	.	.	0.030	.	.	.	.	.	40 mm Ø x 34 mm
SS 434/2	0.010	0.038	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
IARM 359A	0.0094	0.002	0.0044	(0.001)	(0.002)	0.0100	0.0009	0.027	(0.001)	.	(0.001)	31 mm Ø x 2 or 18 mm
BS 1026	0.0083	(0.0004)	0.0031	(0.0002)	0.0019	0.0112	(0.0004)	0.0016	0.0021	.	(0.0002)	38 mm Ø x ~7 or 19+ mm <b>17025</b>
VS UG94	.	.	.	.	.	.	0.053	(0.001)	.	.	.	~40 mm Ø x ~28 mm
VS UG18/6	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
HRT FE2016-N	0.0055	.	.	.	.	.	.	.	.	.	.	35 mm Ø x 20 mm
BS 1020	0.0109	(0.0003)	0.0046	(0.0002)	(0.0018)	0.0090	(0.0005)	0.0363	(0.0004)	.	(0.0005)	44 mm Ø x ~7 or 19+ mm <b>17025</b>
IARM 213C	0.0116	0.0011	0.0042	0.0011	0.002	0.0081	0.0010	0.035	(0.002)	(0.006)	(0.0004)	31 mm Ø x 2 mm
IRSID 1664	0.0072	(0.0002)	.	0.0002	0.0012	0.0108	0.0013	(0.0005)	<0.002	(0.0007)	(0.0001)	37 mm Ø x 30 mm
VS RG25/1	.	0.016	.	.	.	.	0.055	0.0110	.	.	.	~45 mm Ø x ~28mm
BS 1018 *	0.010	<0.005	0.002	<0.005	* Provisional Analysis	0.0092	0.0009	0.001	<0.005	<0.05		38 mm Ø x ~7 or 19+ mm
BS LF2B	0.0078	(0.0003)	0.0024	(0.0001)	0.0018	0.0024	0.0009	0.0300	0.0027	<b>17025</b>	Fe:97.9	38 mm Ø x ~7 or 19+ mm
12X 10180C	0.0052	.	.	.	.	0.0024	.	.	0.0005	.	.	~40 mm Ø x ~15 mm
BS 1016 *	<0.05	0.001	<0.05	<0.05	.	0.01	0.001	0.001	* Provisional Analysis			Hexagon ~60 mm Ø x 19+ mm
NM 3404.01	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 20 mm last
12X 10180B	0.0071	.	.	.	.	0.0065	.	.	.	0.0079	.	~40 mm Ø x ~15 mm
VS RG25	.	.	.	.	.	.	0.039	.	.	.	.	~45 mm Ø x ~28mm
VS UG124	0.0072	.	.	.	.	.	.	0.0043	.	.	.	~45 mm Ø x ~28mm
VS UG109	.	.	.	.	.	.	0.071	.	.	.	.	~45 mm Ø x ~25 mm
BS 2931B	0.0076	0.0011	0.0021	(0.00004)	0.0012	0.0062	0.0008	0.0014	0.0007	Mg:0.0001	0.0005	38 mm Ø x ~7 or 19 mm <b>17025</b> last
SS 456/2	.	0.0057	.	0.0189	0.0172	.	.	0.0221	.	.	(0.014)	38 mm Ø x 19 mm
DSZU C041	0.0046	0.0017	.	.	.	0.0038	0.0019	0.003	(0.003)	.	.	40 mm Ø x 25 mm
SS 432/1	.	<0.002	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
SS 601/2	.	.	.	.	.	.	.	(0.002)	.	.	(<0.005)	44 mm Ø x 19 mm
VS UG93	.	.	.	.	.	.	0.075	0.0008	.	.	.	~40 mm Ø x ~28 mm
VS UG17/6	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
SS 433/2	.	0.06	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
IRSID 1661	.	.	.	.	.	(0.0005)	(0.0085)	.	.	.	.	40 mm x 42 mm x 30 mm
VS UG125	0.0112	.	.	.	.	.	.	0.035	.	.	.	~45 mm Ø x ~28mm
VS UG108	.	.	.	.	.	.	0.071	.	0.074	.	.	~45 mm Ø x ~25 mm
SRM 1228	.	.	.	.	.	.	.	<0.001	.	.	.	32 mm Ø x 19 mm
ECRM 057-2D	0.0023	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 25 or 30 mm
BS XCCS-1	0.0052	(0.001)	.	(0.0006)	(0.0005)	0.0002	0.0015	0.0012	(0.003)	.	0.0006	~40 mm Ø x ~30 mm <b>17025</b>
VS XCCS	0.0047	(<0.002)	(0.0027)	(<0.001)	(0.0006)	0.006	(0.0005)	(<0.002)	.	.	(<0.002)	36 mm Ø x 12-37 mm last
VS RG26/1	.	0.0056	.	.	.	.	0.100	0.0113	.	.	.	~45 mm Ø x ~28mm
NM PC-1	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 20 mm
DSZU C03	.	(0.002)	.	(0.009)	(0.003)	0.011	0.002	0.004	(0.009)	(0.0037)	(0.0006)	40 mm Ø x 30 mm
VS RG26	.	.	.	.	.	.	0.121	.	0.0058	.	.	~45 mm Ø x ~28mm
SS 431/2	0.005	0.004	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
SS 111	0.0034	(0.0005)	.	.	.	0.0015	0.0004	0.0009	.	.	.	44 mm Ø x 19 mm
SS 111A	0.0034	(0.0005)	.	(<0.001)	(<0.001)	0.0015	0.0004	0.0009	.	.	(<0.001)	44 mm Ø x 19 mm last
DSZU C040	0.0071	(0.0004)	.	.	.	(0.0001)	0.0010	(0.001)	(0.002)	.	.	40 mm Ø x 25 mm
RM Fe 1/5	0.002	<0.005	.	<0.002	.	0.0008	<0.0005	<0.0005	0.002	.	<0.005	40 mm Ø x 40 mm
VS UG2/5	.	(0.002)	.	.	.	.	(0.01)	0.005	(0.02)	.	.	~45 mm Ø x ~28 mm
SS 432/2	0.007	0.018	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
VS 005	.	.	.	.	.	0.0021	0.0047	.	.	.	.	~45 mm Ø x ~25 mm
VS UG2/10	(0.006)	.	.	.	.	0.0017	0.0070	.	.	.	.	~45 mm Ø x ~28 mm
VS 003	.	.	.	.	.	0.0020	0.0063	.	.	.	.	~45 mm Ø x ~25 mm
CZ LA-1B	0.003	(0.001)	.	(0.0007)	(0.002)	(0.001)	(0.001)	0.004	0.010	.	(0.002)	~37 mm Ø x 25 mm
IMZ 110A	0.0037	.	.	.	.	.	(0.0006)	(0.0014)	.	.	.	43 mm Ø x 20 mm
VS 004	.	.	.	.	.	.	0.0013	.	.	.	.	~45 mm Ø x ~25 mm
VS 002	.	.	.	.	.	0.00040	0.0005	.	.	.	.	~45 mm Ø x ~25 mm
BS LC-6	0.0003	(<0.0010)	0.0007	(<0.0020)	(<0.0001)	(<0.0020)	0.0006	(<0.0010)	(<0.0050)	(0.00004)	(0.0004)	39 mm Ø x ~7 or 19+

## ARSENIC AND ANTIMONY IN STEEL

# = Class, where 1 = CRM and 2 = RM analysis listed in mass % except \* which is mg/kg

#	Number	As	Sb	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Als	Co	Mo	Sn	Ti
1	VS UG87	0.116	0.0012	0.59	1.18	0.026	0.022	1.25	0.030	0.50	0.260	0.024	0.02	.	0.044	.	0.103
1	12X 12749W	0.071	.	0.132	1.250	0.0257	0.101	0.298	0.311	0.485	0.554	0.004	.	0.436	0.224	0.040	0.031
1	SS 454/1	0.070	.	0.376	0.80	0.061	0.047	0.31	0.051	0.069	0.062	.	.	.	0.20	0.054	0.010
1	12X 15266V *	0.07	.	0.45	1.26	0.034	0.026	0.66	0.23	1.31	3.4	0.52	.	0.3	0.3	0.01	.
1	IMZ 120	0.065	0.031	0.60	0.40	(0.049)	0.026	0.34	0.10	0.085	0.20	0.033	.	.	.	0.008	.
1	IRSID 1656	0.055	.	0.477	0.730	0.027	0.013	0.277	.	(0.048)	(0.017)	(0.002)	.	.	(0.007)	.	.
1	12X 15260W	0.055	.	0.352	2.08	0.0275	0.074	0.485	0.152	0.453	2.98	0.191	.	0.0884	0.098	0.0094	.
1	12X 350B	0.053	.	0.138	0.706	0.029	0.0363	0.672	0.150	0.162	0.392	0.341	.	0.0206	0.149	0.0298	0.099
1	12X 353G *	0.05	0.14	0.11	0.71	0.008	0.015	0.21	0.23	0.21	0.71	0.05	.	0.025	0.11	0.12	0.04
1	12X 12746U	0.049	.	0.0132	1.70	0.0247	0.064	0.183	0.368	0.161	0.182	0.021	.	0.115	0.654	0.202	0.0283
1	12X 358A *	0.04	0.13	0.13	0.7	0.01	0.015	0.2	0.2	0.2	0.63	0.06	.	0.04	0.1	0.12	0.05
1	12X 355C	0.0331	0.0796	0.159	0.508	0.0214	0.0241	0.494	0.657	0.0710	0.113	0.1104	.	0.0495	0.1010	0.0564	0.153
1	12X 354B *	0.022	.	0.25	5.06	0.05	0.01	0.2	0.06	0.08	0.047	0.014	.	0.025	0.03	0.016	0.027
1	ECRM 055-2D	0.0187	0.00376	0.5199	0.687	0.0102	0.0205	0.3094	0.2089	0.3121	0.3217	.	.	0.0257	0.0960	0.0162	0.00104
1	12X 357C	0.0147	0.0140	0.270	0.220	0.0101	0.0590	0.153	0.265	0.0954	0.094	0.208	.	0.199	0.0105	0.0188	0.0569
1	<b>BS 1030</b>	0.0055	0.0024	0.331	0.682	0.0101	0.0299	0.261	0.269	0.078	0.124	0.0014	.	0.0069	0.0182	0.0114	0.0005
1	VS UG90	0.0044	0.0011	0.34	0.286	0.0079	0.012	0.221	0.200	0.265	0.261	0.037	0.032	.	0.046	.	0.039
1	VS UG89	0.0043	0.0011	0.92	0.76	0.0085	0.01	0.385	0.373	0.51	0.420	0.01	0.007	.	0.044	.	0.012
1	<b>BS 2931B</b>	0.0033	0.0012	0.159	0.788	0.0108	0.0292	0.207	0.098	0.083	0.080	0.0191	.	0.0056	0.0329	0.0062	0.0008
1	VS UG92	0.0027	0.0005	0.69	0.79	0.05	0.0029	1.98	0.111	0.155	0.200	0.091	0.08	.	0.119	.	0.022
1	IRSID 1670	0.0018	.	0.0011	0.3981	0.0128	0.0075	0.0046	0.0134	0.0142	0.0174	0.0479	.	0.0018	0.0009	0.0017	0.0078
1	VS UG88	0.0007	0.0003	0.62	1.26	0.0026	0.0043	1.22	0.171	0.52	0.474	0.01	0.009	.	0.104	.	0.107
1	VS UG91	0.0004	0.00009	0.49	.	0.0038	0.0021	2.23	0.057	0.039	0.064	0.048	0.048	.	0.058	.	0.038
1	SS 458/2	.	0.089	0.198	0.479	0.0281	0.0314	0.504	.	.	.	0.055	0.053	0.198	.	.	.
1	SS 457/2	.	0.050	0.307	0.327	0.0098	0.0448	0.105	.	.	.	0.088	0.084	0.0217	.	.	.

Number	B	Bi	Ca*	Ce*	Mg*	N	Nb	O*	Pb	Se	Ta	V	W	Zn	Zr	Units
VS UG87	.	.	.	.	.	0.010	.	.	0.00008	.	.	0.0038	.	.	.	~47 mm Ø x ~30 mm
12X 12749W	.	.	.	.	.	.	.	.	.	.	.	0.069	0.034	.	.	~40 mm Ø x ~15 mm
SS 454/1	.	.	.	.	.	.	.	.	(0.0001)	.	.	.	0.15	.	.	38 mm Ø x 19 mm
12X 15266V *	* Provisional Analysis	.	.	.	.	.	1.45	.	.	0.12	0.11	.	.	.	.	~40 mm Ø x ~15 mm
IMZ 120	.	.	.	.	.	0.0115	.	.	0.077	.	.	.	.	.	.	40 mm Ø x 40 mm
IRSID 1656	.	.	.	.	.	.	.	.	.	.	.	(0.002)	.	.	.	40 mm Ø x 35 mm
12X 15260W	.	.	.	.	.	.	0.254	.	.	.	(0.016)	0.442	.	.	.	~40 mm Ø x ~15 mm
12X 350B	.	.	.	.	.	.	.	.	.	.	0.0286	0.275	.	.	.	40 mm Ø x 15 mm
12X 353G *	* Provisional Analysis	.	.	.	.	.	0.06	0.012	0.02	0.02	0.14	.	.	0.035	.	~40 mm Ø x ~15 mm
12X 12746U	.	.	.	.	.	0.0218	.	.	.	.	0.0160	0.101	.	.	.	40 mm Ø x 15 mm
12X 358A *	* Provisional Analysis	.	.	.	.	.	0.11	.	.	0.1	.	0.03	0.12	.	0.01	~40 mm Ø x ~15 mm
12X 355C	(0.0012)	.	.	.	.	0.0023	0.023	.	.	0.0395	.	0.1265	0.037	.	0.0192	~40 mm Ø x ~15 mm
12X 354B *	* Provisional Analysis	.	.	.	.	.	0.08	.	.	.	0.021	0.028	.	.	0.03	~40 mm Ø x ~15 mm
ECRM 055-2D	.	.	.	.	.	0.01069	.	.	.	.	0.00245	0.0166	.	.	.	38 mm Ø x 25 or 30 mm
12X 357C	0.0102	0.0058	.	.	.	0.0079	0.0051	.	0.0315	(0.004)	.	0.166	0.0194	0.0094	.	~40 mm Ø x ~15 mm
<b>BS 1030</b>	0.0003	.	12	.	(2)	0.0107	(0.0004)	50	0.0005	.	(0.001)	0.031	0.0012	.	(0.0002)	38 mm Ø x ~7 or 19+ mm <b>17025</b>
VS UG90	.	.	.	.	.	0.015	.	.	.	.	.	.	.	.	.	~47 mm Ø x ~30 mm
VS UG89	.	.	.	.	.	0.017	0.0043	.	0.0003	.	.	0.021	.	.	.	~47 mm Ø x ~30 mm
<b>BS 2931B</b>	0.0002	.	2	.	1	0.0076	0.0011	21	(0.00004)	.	(0.0004)	0.0014	0.0007	last	0.0005	38 mm Ø x ~7 or 19 mm <b>17025</b>
VS UG92	.	.	.	.	.	0.016	0.034	.	0.00017	.	.	0.024	.	.	.	~47 mm Ø x ~30 mm
IRSID 1670	0.0007	.	.	(2)	.	0.0016	(0.0003)	.	.	.	.	(0.0005)	.	.	.	37 mm Ø x 30 mm
VS UG88	.	.	.	.	.	0.020	0.059	.	0.00015	.	.	0.117	.	.	.	~47 mm Ø x ~30 mm
VS UG91	.	.	.	.	.	0.010	0.097	.	0.00006	.	.	0.049	.	.	.	~47 mm Ø x ~30 mm
SS 458/2	0.0069	.	.	.	.	.	0.0510	.	0.0140	.	.	0.105	.	.	(0.064)	38 mm Ø x 19 mm
SS 457/2	0.0046	.	.	.	.	.	0.0174	.	0.0098	.	.	0.153	.	.	0.025	38 mm Ø x 19 mm

## BISMUTH AND SELENIUM STEEL

# = Class, where 1 = CRM and 2 = RM

12X: ~31-40 mm Ø x ~13-15 mm CKD: 44 mm Ø x 13 mm  
BS 4142SE: 38 mm Ø x 12 mm other BS: 38 mm Ø x ~7 or 19+ mm

#	Number	Bi	Se	C	Mn	P	S	Si	Cu	Ni	Cr	Al	As	Co	Mo	N
2	BS 4140A	0.105	.	0.40	0.84	0.021	0.076	0.21	0.15	0.15	0.97	0.016	0.005	0.010	0.16	0.0098
2	BS 53MOD	0.102	.	1.01	0.36	0.011	0.012	0.26	0.070	0.072	1.37	0.019	0.004	0.007	0.024	0.0086
2	BS 4140B	0.087	.	0.43	0.76	0.027	0.037	0.20	0.006	0.012	0.84	0.036	(0.002)	0.005	0.16	0.0064
2	BS 4150MOD	0.070	.	0.47	0.90	0.024	0.079	0.21	0.19	0.15	1.01	0.012	0.005	0.012	0.21	0.0087
2	CZ CM-16A	0.039	.	0.355	0.92	0.043	0.033	0.77	0.293	0.72	0.70	0.125	0.058	0.056	0.405	0.015
1	12X 356C	0.0072	0.0059	0.211	0.199	0.0526	0.0341	0.0662	0.449	0.0349	0.253	0.0338	0.0253	0.1499	0.0294	0.0061

Number	B	Ca	Nb	O	Pb	Sb	Sn	Ti	V	W	Zn	Zr
BS 4140A	.	(0.0003)	.	(0.0025)	(0.001)	.	0.011	(0.003)	0.004	.	.	.
BS 53MOD	.	(0.001)	.	(0.002)	0.0005	.	0.008	.	0.005	.	.	.
BS 4140B	.	(0.0002)	.	(0.002)	0.004	.	(0.002)	0.003	0.005	.	.	.
BS 4150MOD	.	0.0010	.	(0.003)	0.0010	.	0.013	(0.002)	0.008	.	.	.
CZ CM-16A	0.012	0.0006	0.066	.	0.053	0.027	0.025	0.099	0.319	0.141	0.021	0.062
12X 356C	0.0010	.	0.0030	.	0.0238	0.0291	0.0365	0.0252	0.0588	0.107	0.0099	.

## CALCIUM IN STEEL

# = Class, where 1 = CRM and 2 = RM analysis listed in mass % except \* which is mg/kg

#	Number	Ca	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Als	Co	Mo	N	V
1	<b>BS HiCal-1</b>	0.0140	0.271	1.00	(0.007)	0.0007	1.29	0.152	3.28	1.55	0.070	.	0.0024	0.379	.	0.0027
1	SS 115	0.0058	0.6224	0.682	0.0123	0.00093	0.2078	.	0.0196	0.0198	0.0527	.	.	.	0.0067	.
1	<b>BS 9325A</b>	0.0039	0.203	0.969	0.0079	0.0045	0.612	0.163	3.29	1.50	0.0056	.	0.0093	0.358	0.0076	(0.0024)
1	ECRM 194-1D	0.0026	0.1532	1.188	0.0097	0.0006	0.431	0.0751	0.3417	0.733	0.0837	.	.	0.2857	0.0115	0.0243
1	<b>BS XCCS-1</b>	0.0024	0.0441	0.356	0.0068	0.0022	0.292	0.0143	0.0132	0.0288	0.061	.	0.0017	0.0060	0.0052	0.0012
2	HRT FE2006-N	0.0022	0.090	1.13	0.013	0.003	0.28	0.03	0.04	0.54	0.025	.	.	(0.01)	.	0.059
1	<b>BS 1020</b>	0.0022	0.210	0.568	0.0058	0.0249	0.250	0.184	0.059	0.109	0.0006	.	0.0070	0.018	0.0109	0.0363
2	HRT FE2009-N	0.0020	0.12	0.55	0.010	0.003	0.32	0.08	0.25	2.56	0.030	.	.	1.02	.	0.015
1	IRSID 1665	0.0017	0.1209	0.446	0.0104	0.0135	0.187	0.0469	0.0308	0.0363	.	0.0379	0.0046	0.0047	0.0049	(0.0006)
1	<b>BS 3941</b>	0.0011	0.407	0.802	0.016	0.023	0.257	0.053	0.018	0.069	0.0019	.	0.0042	0.0061	0.0069	0.0025
1	IARM 254A	0.001	0.500	0.78	0.010	0.024	0.211	0.091	0.044	0.050	0.025	.	0.006	0.013	0.0096	0.002
2	BS 4150MOD	0.0010	0.47	0.90	0.024	0.079	0.21	0.19	0.15	1.01	0.012	.	0.012	0.21	0.0087	0.008
2	BS 4330V	0.0010	0.318	0.91	0.008	0.0009	0.240	0.181	1.91	0.91	0.021	.	0.011	0.475	0.0076	0.094
1	<b>BS 4130</b>	0.0007	0.303	0.541	0.0105	0.0113	0.245	0.221	0.088	0.924	0.0242	.	0.0065	0.168	0.0072	0.0037
2	BS 4942	0.0006	0.414	0.56	0.015	0.021	0.22	0.165	0.16	0.97	(0.004)	.	0.010	0.54	0.0080	0.28
2	BS 2952	0.0003	1.03	0.33	0.013	0.014	0.32	0.106	0.135	1.36	0.024	.	0.007	0.044	0.0084	0.005
1	<b>BS PP20</b>	0.0003	0.382	1.41	0.018	0.0070	0.262	0.119	1.00	1.94	0.0132	.	0.0145	0.212	0.0080	0.066
1	IMZ 111	0.0003	0.106	0.31	0.010	0.039	0.55	0.036	0.23	0.072	0.017	0.007	.	0.084	0.0133	0.022
2	TL 1669	0.00017	0.00226	0.0955	0.0137	0.0100	0.0093	0.0217	0.0160	0.0246	0.03553 (tot)	.	0.0019	0.0011	0.0024	(0.0006)

Number	As	B	Bi	Nb	O	Pb	Sb	Sn	Ti	W	Zr	Other
<b>BS HiCal-1</b>	0.0022	(0.0001)	.	(0.002)	.	(0.0005)	.	(0.0002)	0.0037	(0.0009)	(0.0008)	~38 mm Ø x ~30 mm
SS 115	.	.	.	.	.	.	.	.	0.0027	.	.	38 mm Ø x 19 mm
<b>BS 9325A</b>	0.0024	(0.0001)	.	0.0017	.	(0.0003)	Fe: 92.8	(0.0003)	0.0030	0.024	(0.001)	~40 mm Ø x ~30 mm
ECRM 194-1D	0.0042	0.0020	.	.	.	.	.	.	.	.	.	Disc 33 mm Ø x 33 mm or Block ~38x34x32 mm
<b>BS XCCS-1</b>	0.0024	(0.0004)	.	(0.001)	Fe: 99.2	(0.0006)	(0.0005)	0.0002	0.0015	(0.003)	0.0006	~40 mm Ø x ~30 mm
HRT FE2006-N	.	.	.	.	.	.	.	.	0.005	0.54	.	29 mm Ø x 20 mm
<b>BS 1020</b>	0.0074	(0.0001)	.	(0.0003)	0.0046	(0.0002)	(0.0018)	0.0090	(0.0005)	(0.0004)	(0.0005)	44 mm Ø x ~7 or 19+ mm
HRT FE2009-N	.	.	.	.	.	.	.	.	.	.	Zn: 0.004	40 mm Ø x 40 mm
IRSID 1665	0.0067	(0.00032)	.	.	.	(0.0014)	(0.0008)	0.0031	(0.0008)	.	.	37 mm Ø x 30 mm
<b>BS 3941</b>	0.0036	(0.0001)	.	0.033	0.0055	0.0010	0.0005	0.0019	0.0017	(0.0004)	(0.0003)	41 mm Ø x ~7 or 19+ mm
IARM 254A	0.005	0.0002	.	0.001	(0.003)	(0.0003)	.	0.005	0.001	(0.001)	(0.001)	31 mm Ø x 2 mm
BS 4150MOD	0.005	.	0.070	.	(0.003)	0.0010	.	0.013	(0.002)	.	.	38 mm Ø x ~7 or 19+ mm
BS 4330V	.	.	.	.	0.0018	.	.	0.010	.	.	.	37 mm Ø x ~7 or 19+ mm
<b>BS 4130</b>	0.0048	(0.0002)	.	0.0015	0.0015	(0.00003)	(0.0021)	0.0099	0.0009	0.0011	Mg: 0.0002	38 mm Ø x ~7 or 19+ mm
BS 4942	0.005	.	.	.	(0.0021)	.	.	0.014	.	.	.	38 mm Ø x ~7 or 19+ mm
BS 2952	0.004	.	.	.	(0.002)	.	0.003	0.006	0.003	.	.	44 mm Ø x ~7 or 19+ mm
<b>BS PP20</b>	0.0049	0.00011	.	0.0048	(0.0010)	.	0.0013	0.0069	0.0007	0.0058	.	38 mm Ø x ~7 or 19+ mm
IMZ 111	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
TL 1669	0.0017	0.00038	.	0.00046	.	0.00013	0.00049	0.0071	0.0504	.	(0.00021)	38 mm Ø x 25 mm
												Zn: 2.7*

## CRM Al, Ca, AND N IN LOW ALLOY STEEL

Number	Al	Ca	N	Units
<b>BS 9905</b>	0.017	(0.0001)	<b>0.055</b>	38 mm Ø x ~7 mm
IMZ 133	.	.	<b>0.0360</b>	40 mm Ø x 40 mm
IMZ 131	0.0043	.	<b>0.0333</b>	40 mm Ø x 40 mm
IMZ 135	0.0274	0.0008	<b>0.0238</b>	40 mm Ø x 40 mm
IMZ 169	0.075	.	<b>0.0193</b>	40 mm Ø x 40 mm
IMZ 141	0.0071	.	<b>0.0154</b>	40 mm Ø x 40 mm
IMZ 130	0.0046	0.0024	<b>0.0153</b>	40 mm Ø x 40 mm
IMZ 139	(0.029)	0.0031	<b>0.0113</b>	40 mm Ø x 40 mm
IMZ 132	0.0021	0.0002	<b>0.0097</b>	40 mm Ø x 40 mm
IMZ 137	0.0017	0.00025	<b>0.0083</b>	40 mm Ø x 40 mm
IMZ 140	0.0307	0.0015	<b>0.0083</b>	40 mm Ø x 40 mm
IMZ 138	0.0022	.	<b>0.0063</b>	40 mm Ø x 40 mm
IMZ 134	0.0124	0.0005	.	40 mm Ø x 40 mm
IMZ 136	0.0034	0.00031	.	40 mm Ø x 40 mm

## C-Mo and Cr-Mo STEEL XRF SET

# = class, where 1 = CRM ISO 17025 and 2 = RM, Set Part Number: BS MOLY-5 AVAILABLE INDIVIDUALLY ~7 mm discs

#	Grade	Alloy	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	Co	N	Sn	V
2	C-.5Mo	4419	BS 3952	0.208	0.546	0.011	0.021	0.264	0.202	0.112	0.105	0.519	0.048	.	(0.0005)	.	.
2	1.25Cr-.5Mo	F-11	BS 45A	0.133	0.46	0.016	0.022	0.69	0.17	0.15	1.16	0.52	0.032	0.009	0.0081	0.011	0.004
2	2.25Cr-1Mo	F-22	BS 1982	0.128	0.441	0.012	0.026	0.255	0.177	0.197	2.09	0.89	0.021	0.010	0.0097	0.013	0.003
2	5Cr-.5Mo	F-5	BS 47A	0.130	0.44	0.017	0.015	0.27	0.11	0.12	4.22	0.47	0.015	0.011	0.018	0.008	0.016
1	9Cr-1Mo	F-9	<b>BS 48B</b>	0.110	0.365	0.0228	0.0068	0.75	0.070	0.165	8.78	0.949	0.0157	0.0165	0.0088	0.0049	0.033

## CRM EPMA SETS

available in sets only, as grouped 4x10x15mm

Number	Cr	Number	Ni
NMIJ 1001-a	5.00	NMIJ 1006-a	5.04
NMIJ 1002-a	14.96	NMIJ 1007-a	10.05
NMIJ 1003-a	19.87	NMIJ 1008-a	20.02
NMIJ 1004-a	29.84	NMIJ 1009-a	39.92
NMIJ 1005-a	39.69	NMIJ 1010-a	60.07



**LEADED STEEL**

# = Class, where 1 = CRM and 2 = RM

OES regularly requires extension of preburn time

#	Number	Pb	C	Mn	P	S	Si	Cu	Ni	Cr	Al	As	Co	Mo	N	Sn	V
1	BS 74C	0.328	0.077	0.94	0.082	0.294	(0.002)	0.005	0.011	0.019	(<0.002)	0.004	.	0.008	0.0040	(<0.002)	0.0016
1	14X 12144A	0.328	0.0800	1.227	0.0630	0.325	0.0093	0.0106	0.0162	0.0807	0.0034	0.0022	.	0.0089	0.0066	.	.
2	CZ CM-15C	0.29	0.075	1.13	0.063	0.32	0.006	0.141	0.072	0.052	.	.	(0.01)	0.021	.	.	.
1	BS 75G	0.247	0.161	1.08	0.0085	0.114	0.011	0.0300	0.045	0.079	0.0016	0.0028	0.0031	0.0174	0.0030	0.0014	0.0005
2	BS 75F	0.202	0.165	1.05	0.009	0.116	0.004	0.030	0.044	0.080	0.002	.	.	0.018	.	.	.
1	BS 73C *	0.21	0.21	0.84	0.012	0.03	0.28	0.026	0.59	0.58	0.03	0.004	0.003	0.18	0.004	0.004	0.003
1	IARM 182B	0.19	0.21	0.81	0.016	0.037	0.27	0.017	0.47	0.49	0.038	(0.003)	0.006	0.172	0.0040	0.0019	0.004
1	IARM 183C	0.18	0.079	1.06	0.078	0.31	0.004	0.016	0.019	0.055	0.0021	0.003	(0.002)	0.010	0.0049	0.003	0.002
2	BS 72B	0.174	0.497	0.87	0.029	0.029	0.26	0.21	0.169	0.985	0.020	(0.006)	0.012	0.187	0.0081	0.014	0.004
2	BS 73B	0.139	0.200	0.83	0.009	0.030	0.250	0.141	0.416	0.512	0.022	0.004	0.008	0.170	0.0113	0.008	(<0.002)
2	BS 70B	0.135	0.40	0.90	0.009	0.022	0.27	0.13	0.25	1.00	0.024	.	.	0.205	.	.	.
1	BS 70C *	0.13	0.39	0.90	0.01	0.02	0.27	0.12	0.25	0.97	0.02	<0.05	0.009	0.20	<0.05	0.01	0.002

Number	B	Ca	Nb	O	Sb	Ti	W	Zn	Grade	Units
BS 74C	.	.	(<0.005)	.	.	.	.	.	12L14	41 mm Ø x ~7 or 19+ mm
14X 12144A	.	.	.	.	.	.	.	.		~40 mm Ø x ~15 mm
CZ CM-15C	.	.	.	.	.	.	.	.		~39 mm Ø x 25 mm
BS 75G	(0.0002)	(0.0002)	(0.0003)	0.0155	.	(0.0004)	0.0004	.	11L17	41 mm Ø x ~7 or 19+ mm
BS 75F	.	.	.	.	.	.	.	.	11L17	40 mm Ø x 12 mm
BS 73C *	<0.005	<0.005	0.005	0.001	0.003	0.002	0.007	.	86L20	38 mm Ø x ~7 or 19+ mm
IARM 182B	(0.0003)	(0.0005)	(0.003)	(0.003)	(0.003)	(0.003)	(0.01)	(0.001)	86L20	31 mm Ø x 2 mm
IARM 183C	0.0011	.	0.0010	0.016	(0.001)	0.0009	(0.002)	0.001	12L14	31 mm Ø x 2 or 18 mm
BS 72B	.	.	(0.001)	.	.	(0.002)	.	.	41L50	37 mm Ø x ~7 or 19+ mm
BS 73B	.	.	.	.	.	.	.	.	86L20	41 mm Ø x ~7 or 19+ mm
BS 70B	.	.	.	.	.	.	.	.	41L40MOD	41 mm Ø x ~7 or 19+ mm
BS 70C *	<0.005	.	<0.05	<0.05	.	0.002	.	Zr:<0.05	41L40MOD	41 mm Ø x ~7 or 19+ mm

**RM LEADED AND BISMUTH STEEL XRF SET**

Part Number: BS PB-BI-7

AVAILABLE INDIVIDUALLY

~7 mm discs

17025

Grade	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	Bi	Pb	Sn	V	N
11L17	BS 75F	0.165	1.05	0.009	0.116	0.004	0.030	0.044	0.080	0.018	0.002	.	0.202	.	.	.
12L14	BS 74B	0.08	0.91	0.087	0.316	0.002	0.006	0.012	0.019	0.008	(0.002)	.	0.34	.	.	.
41L40	BS 70B	0.40	0.90	0.009	0.022	0.27	0.13	0.25	1.00	0.205	0.024	.	0.135	.	.	.
41L50	BS 72B	0.497	0.87	0.029	0.029	0.26	0.21	0.169	0.985	0.187	0.020	.	0.174	0.014	0.004	0.0081
4140 + Bi & S	BS 4140A	0.40	0.84	0.021	0.076	0.21	0.15	0.15	0.97	0.16	0.016	0.105	(0.01)	0.011	0.004	0.0098
4150 + Bi & S	BS 4150 MOD	0.47	0.90	0.024	0.079	0.21	0.19	0.15	1.01	0.21	0.012	0.070	0.0010	0.013	0.008	0.0087
8620 + Bi & S	BS 8620A	0.184	0.80	0.008	0.079	0.21	0.15	0.44	0.48	0.16	0.016	0.073	(0.001)	0.009	0.004	0.0107

**MANGANESE STEEL**

14X:~40Øx~15-17mm BS:32Øx~15-17mm CZ:~39Øx25mm DSZU:39Øx20mm ECRM:35Øx25mm IMN:50-56Øx15mm SS 491:50Øx10mm other SS:48x42x12mm VS:~38Øx~18mm

#	Number	Mn	C	P	S	Si	Cu	Ni	Cr	Al	Mo	N	Nb	Sn	V	Other
1	DSZU C013	28.8	0.89	0.025	(0.002)	0.29	0.108	(0.20)	(0.14)	(8.6)	(0.44)	(0.002)	(0.46)	.	(0.1)	.
1	VS LG68	28.8	0.39	(0.02)	0.003	.	0.11	0.20	0.13	8.6	0.46	.	0.46	.	.	.
1	IMZ 199	28.74	0.90	0.022	(0.0006)	0.294	0.110	0.20	0.164	8.65	0.43	.	0.43	.	0.026	B:(0.001) Ti:(0.004)
2	CZ SP-2B	26.1	1.42	0.10	0.009	0.51	0.096	0.32	1.36	0.008	0.38	.	W:0.084	.	0.155	Co:0.040 Ti:0.025
1	IRSID 1833	22.57	0.605	0.0345	(0.0005)	0.193	0.030	0.0494	0.268	0.0025	0.0133	0.012	0.0026	0.0043	0.203	As, Co, Pb, and Ti **
1	14X MN1AL *	22.1	0.57	0.056	0.005	0.94	0.18	0.69	1.3	0.23	0.49	0.06	0.098	0.039	0.023	Ta: 0.007 Ti: 0.03
1	DSZU C012	20.9	0.39	0.021	0.0072	0.31	0.087	0.303	0.17	(2.9)	(0.03)	(0.013)	.	.	(1.14)	.
1	VS LG67	20.9	0.39	0.020	0.007	0.31	0.090	0.11	0.19	2.88	.	.	.	.	1.09	.
2	BS 17	19.59	0.63	0.047	0.007	0.21	0.075	0.03	1.46	(0.02)	0.46	.	.	(0.012)	(0.02)	~15mm height
2	BS 17A	19.38	0.588	0.043	0.005	0.22	0.135	0.060	1.37	0.052	0.52	0.038	0.06	0.012	0.016	Co: 0.013
1	DSZU C011a	17.4	0.45	0.042	0.008	0.43	0.089	0.11	0.36	(2.8)	(0.014)	.	.	.	.	.
1	DSZU C024	16.95	0.88	0.068	0.0100	0.531	0.72	0.66	1.62	(0.004)	0.29	(0.021)	(0.10)	.	0.29	B:(0.003) Ti:(0.006)
1	IMZ 198	16.10	0.44	0.031	0.0090	0.423	0.104	0.058	0.30	2.80	(0.008)	.	.	.	.	Ti:(0.005)
1	VS LG66	16.1	0.44	0.031	0.010	0.41	0.104	0.059	0.30	2.6	.	.	.	.	.	.
1	DSZU C011	16.09	0.44	0.031	0.0093	0.41	0.105	0.058	0.30	(2.6)	(0.01)	(0.010)	.	.	.	.
1	14X MN4AC *	13.7	0.9	0.075	0.02	0.87	0.27	1.08	1.97	0.2	0.8	0.045	0.16	0.06	0.03	As: 0.004 Ti: 0.07
1	SS 495/4	13.11	0.796	0.093	0.0128	0.674	0.0222	1.620	2.223	0.0082	0.266	0.0416	.	.	0.0525	Co: 0.0120
1	DSZU C023	13.09	0.79	0.052	0.0062	0.291	0.111	3.15	0.313	(0.006)	(0.02)	(0.018)	(0.02)	.	(0.02)	B:(0.001) Ti:(0.004)
1	DSZU C022	12.89	1.15	0.087	0.0057	0.34	0.103	0.122	0.192	(0.007)	(0.03)	(0.013)	(0.01)	.	(0.03)	B:(0.001) Ti:(0.006)
1	DSZU C010	12.25	1.20	0.082	0.0035	0.49	0.120	0.108	0.187	(0.006)	(0.01)	(0.017)	.	.	.	.
1	VS LG65	12.2	1.19	0.080	0.0033	0.49	0.119	0.11	0.19	0.006	.	.	.	.	.	.
1	DSZU C021	11.23	1.32	0.035	0.010	0.105	0.32	0.36	0.62	(0.003)	0.096	(0.013)	(0.03)	.	0.124	B:(0.002) Ti:(0.005)
1	14X MN3T *	11.1	0.95	0.04	0.01	0.97	0.17	0.50	0.75	0.04	0.25	0.035	0.40	0.02	0.02	.
1	SS 493/3	11.15	0.819	0.12	0.009	0.861	0.017	3.24	0.259	0.035	1.04	0.025	.	.	0.025	.
2	14X 15196S	10.16	1.08	0.037	0.012	1.64	0.22	0.25	0.26	0.13	0.22	.	.	0.10	0.21	last of stock
1	14X MN2R	9.65	0.701	0.0198	0.0098	1.48	0.081	0.530	0.355	0.120	1.546	0.0125	0.294	0.061	0.121	Ti: 0.179
2	BS 19A	8.76	1.57	0.092	0.009	1.46	0.51	1.48	3.75	0.057	1.97	0.039	0.040	0.037	0.10	Co: 0.014
1	DSZU C020	8.85	0.97	0.024	(0.015)	0.091	0.53	1.36	0.96	(0.004)	0.13	(0.020)	(0.02)	.	0.152	B:(0.002) Ti:(0.003)
2	BS 19	8.52	1.48	0.030	0.062	1.44	0.52	1.48	3.93	(0.012)	2.08	.	last	(0.027)	(0.045)	no uncertainties
1	14X MN5T	8.55	1.377	0.0270	0.0110	1.59	0.421	1.372	3.31	(0.26)	1.91	0.0155	0.021	0.0129	0.0397	Ta: 0.005 Ti:(1.00)LAST
1	14X MN5U *	8.84	1.37	0.06	0.03	1.44	0.66	2.1	3.13	0.025	1.95	.	0.1	0.024	0.05	Ta: 0.01 Ti: 0.94
1	SS 492/3	8.33	1.18	0.0318	0.0093	0.299	0.0211	4.17	1.076	0.131	1.318	0.0225	.	.	(0.004)	Co: 0.0048
1	14X MN5V *	8.1	1.4	0.06	0.02	2.4	0.54	3.1	3.26	0.14	2.3	.	0.04	0.03	0.08	Ta: 0.003 Ti: 0.49
2	CZ CM-9B	2.27	0.17	(0.008)	(0.010)	0.89	0.040	0.023	1.36	0.049	(0.002)	.	(0.06)	(0.003)	(0.008)	+7 informational

\* Provisional Analysis

\*\* IRSID 1833 also contains As: 0.0034, Co: 0.0089, Pb: 0.00007, and Ti: 0.0011. Sample size 35 mm Ø x 25 mm.

**CRM MANGANESE STEEL SET**

AVAILABLE IN



## CRM Co/Fe/V MAGNETIC ALLOY PERMENDUR 2V

analysis listed in mass % trace: Al As B C Cu Cr Mg Mo Sn Ta Ti W 31 mm Ø x 2 or 18 mm

Number	Co	Fe	V	Mn	P	S	Si	Ni	N	Nb	O	Zr
IARM 326A	48.4	49.6	1.94	0.003	0.0013	0.0011	0.029	0.037	0.0004	0.038	0.0082	0.002

## RESULFURIZED STEEL

# = Class, where 1 = CRM and 2 = RM OBS regularly requires extension of preburn time to analyze correctly

#	Number	S	C	Mn	P	Si	Cu	Ni	Cr	Al	Co	Mo	N	Sn	Ti	V
1	IMZ 123	0.38	0.25	1.57	0.030	0.23	0.093	0.057	0.16	0.032	.	.	0.0171	(0.007)	.	.
1	ECRM 085-1D	0.336	0.067	0.977	0.062	0.008	0.291	.	.	.	0.019	.	.	.	.	0.0021
1	<b>BS 66L</b>	0.315	0.065	0.844	0.061	0.002	0.007	0.015	0.026	0.0008	0.0035	0.0012	0.0031	(0.0010)	(<0.0010)	0.0006
1	14X 12130A	0.305	0.0871	1.219	0.061	0.022	0.0201	0.0345	0.0505	0.0024	.	0.0102	0.0097	0.0054	.	.
1	IARM 206B	0.293	0.074	1.01	0.050	0.012	0.113	0.053	0.038	0.0025	0.007	0.018	0.0075	0.0064	0.0008	0.0016
1	IARM 199C *	0.28	0.47	1.6	0.016	0.22	0.19	0.084	0.19	(0.002)	(0.01)	0.029	0.0070	0.009	0.002	0.004
1	IMZ 124	0.28	0.10	0.60	0.082	(0.019)	0.060	0.046	0.11	0.005	.	.	0.0059	0.009	.	.
1	<b>BS 1144A</b>	0.271	0.468	1.43	0.0108	0.214	0.147	0.063	0.076	0.0020	0.0064	0.0154	0.0095	0.0079	(0.0008)	0.0015
1	14X MSFM 2K	0.248	0.272	1.568	0.0491	0.353	0.162	0.235	0.996	0.123	0.104	0.355	0.028	0.0218	.	0.0324
1	<b>BS 1144</b>	0.243	0.483	1.55	0.022	0.262	0.462	0.097	0.193	(0.002)	0.011	0.017	0.0093	0.0113	0.002	0.0039
1	14X MSFM 4A	0.224	0.226	1.141	0.0386	0.469	0.429	6.22	1.69	(0.007)	0.0253	0.974	0.0220	0.0141	.	0.0151
1	IMZ 122	0.21	0.27	1.33	0.073	0.43	0.25	0.25	0.19	(0.027)	.	.	0.0110	0.12	.	.
1	14X 606M36TA	0.196	0.378	1.574	0.0159	0.167	0.179	0.0931	0.163	0.0071	.	0.272	0.0096	0.0103	.	.
1	14X 11390A	0.190	0.420	1.040	0.0342	0.198	0.0395	0.0239	0.0609	0.0026	.	0.0067	0.0042	0.0022	.	.
1	ECRM 058-2D	0.1712	0.424	1.186	0.0098	0.1080	0.261	0.199	0.1211	.	.	0.0589	0.0107	.	.	.
1	14X 11170A	0.120	0.154	1.129	0.0133	0.151	0.1101	0.0877	0.1126	0.0023	.	0.0317	0.0112	0.0110	.	.
1	IARM 29E *	0.12	0.193	1.19	0.016	0.239	0.253	0.082	0.105	(0.003)	0.008	0.027	0.0093	0.0108	(0.001)	0.025
2	BS 65C	0.115	0.150	1.19	0.007	0.24	0.24	0.063	0.066	(0.002)	(0.007)	0.012	0.0084	.	.	0.002
2	BS 66B	0.112	0.418	1.56	0.018	0.017	0.028	0.032	0.093	(0.001)	0.005	0.019	0.0056	0.0016	(0.001)	0.0014
1	<b>BS 3993</b>	0.094	0.152	1.16	0.012	0.260	0.111	0.045	0.072	0.002	0.006	0.010	0.0071	0.006	(0.0008)	0.002
1	IMZ 121	0.097	0.39	1.18	0.057	(0.056)	0.032	0.029	0.036	0.016	.	.	0.0125	0.059	.	.
2	BS 52D	0.088	0.436	0.97	0.068	0.18	0.060	0.18	0.16	0.028	0.012	0.09	0.0025	0.004	(0.004)	0.002
2	14X MSFM 3F	0.087	0.55	2.10	0.060	0.52	.	.	.	.	.	0.27	.	.	.	.
2	BS 4150MOD	0.079	0.47	0.90	0.024	0.21	0.19	0.15	1.01	0.012	0.012	0.21	0.0087	0.013	(0.002)	0.008
2	BS 42A	0.078	0.52	1.08	0.012	0.258	0.285	0.147	0.80	0.025	(0.007)	0.195	0.008	.	.	0.004
2	<b>BS 42</b>	0.073	0.516	1.24	0.021	0.235	0.252	0.183	0.67	0.020	0.012	0.190	0.0080	0.012	(0.003)	0.003
1	12X 15217Q	0.073	0.176	0.652	0.058	1.390	0.231	0.864	1.24	(0.021)	0.248	0.358	0.078	0.0737	.	0.662
1	12X 15255Q	0.070	0.351	1.191	0.104	1.02	0.279	0.296	1.509	0.073	0.0502	0.1193	0.027	0.101	0.0377	0.475
1	KUT B2/2	0.064	0.065	1.22	0.087	(0.38)	0.32	1.49	.	0.10	.	1.06	.	.	(0.25)	0.87
1	IMZ 125	(0.057)	0.029	0.95	(0.018)	0.15	0.044	0.023	0.18	(0.007)	.	.	.	0.002	.	.
1	KUT A14	0.052	0.12	0.75	0.041	0.73	0.20	1.32	0.59	(0.01)	0.070	0.25	.	0.10	0.12	0.67
1	KUT B16	0.051	0.16	2.05	0.068	1.95	0.09	3.74	0.26	(0.037)	.	0.11	.	.	0.075	0.53
1	KUT B12	0.048	0.43	0.76	0.028	0.34	0.41	1.62	1.32	0.007	0.011	0.21	.	0.032	0.011	0.026
1	KUT B4	0.043	0.55	1.07	0.047	1.72	0.49	.	.	.	.	.	.	.	.	.

Number	As	B	Bi	Ca	Nb	O	Pb	Sb	W	Zn	Zr	Units
IMZ 123	0.033	.	.	.	.	.	0.030	0.030	.	.	.	40 mm Ø x 40 mm
ECRM 085-1D	.	.	.	.	.	.	0.0010	0.0073	.	0.0025	.	38 mm Ø x 25 or 30 mm
<b>BS 66L</b>	0.0020	(<0.0003)	.	(<0.0010)	(0.0012)	.	0.0007	0.0021	(<0.0010)	.	.	44 mm Ø x -7 or 19+ mm <b>17025</b>
14X 12130A	0.0016	.	.	.	.	.	.	.	.	.	.	-40 mm Ø x -15 mm
IARM 206B	0.0045	0.0006	.	.	0.002	0.016	(0.001)	(0.002)	(0.003)	.	(0.002)	31 mm Ø x 2 or 18 mm
IARM 199C *	0.006	0.001	*	Provisional Analysis	(0.003)	(0.001)	(0.003)	(0.002)	(0.002)	.	(0.001)	31 mm Ø x 2 or 18 mm
IMZ 124	0.004	.	.	.	.	(0.002)	0.002	.	.	.	.	40 mm Ø x 40 mm
<b>BS 1144A</b>	0.0052	(0.0003)	Fe:97.3	(0.0005)	(0.002)	0.0019	(0.0006)	(0.002)	(0.0009)	.	(0.0006)	38 mm Ø x -7 or 19+ mm <b>17025</b>
14X MSFM 2K	.	.	.	.	.	.	.	.	.	.	.	-40 mm Ø x -15 mm
<b>BS 1144</b>	0.009	.	.	.	(0.004)	0.0016	(0.001)	.	(0.003)	.	last	38 mm Ø x 19 mm <b>17025</b>
14X MSFM 4A	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
IMZ 122	0.007	.	.	.	.	.	(0.020)	0.019	.	.	.	40 mm Ø x 40 mm
14X 606M36TA	0.0085	.	.	.	.	.	.	.	.	.	.	-40 mm Ø x -15 mm
14X 11390A	0.0028	.	.	.	.	.	.	.	.	.	.	-40 mm Ø x -15 mm
ECRM 058-2D	0.0095	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 25 or 30 mm
14X 11170A	0.0044	.	.	.	.	.	0.0011	.	.	.	.	-40 mm Ø x -15 mm
IARM 29E *	0.008	0.0007	*	Provisional Analysis	(0.005)	(0.001)	(0.002)	(0.004)	(0.004)	(0.001)	(0.001)	31 mm Ø x 2 or 18 mm
BS 65C	.	.	.	.	.	.	.	.	.	.	.	37 mm Ø x -7 or 19+ mm
BS 66B	.	0.0003	.	.	.	.	.	.	.	.	.	41 mm Ø x -7 or 19+ mm
<b>BS 3993</b>	0.004	.	.	(0.0002)	.	(0.0030)	.	.	.	.	.	38 mm Ø x -7 or 19+ mm <b>25(pre-17025)</b>
IMZ 121	0.002	.	.	.	.	.	0.011	0.017	.	.	.	40 mm Ø x 40 mm
BS 52D	.	.	.	.	.	(0.002)	.	.	.	.	.	35 mm Ø x -7 or 19+ mm
14X MSFM 3F	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
BS 4150MOD	0.005	.	0.070	0.0010	.	(0.003)	0.0010	.	.	.	.	38 mm Ø x -7 or 19+ mm
BS 42A	.	.	.	.	.	.	.	.	.	.	.	37 mm Ø x -7 or 19+ mm
<b>BS 42</b>	(0.004)	.	.	.	(0.002)	.	.	.	(0.002)	.	.	44 mm Ø x -7 or 19+ mm <b>17025</b>
12X 15217Q	.	.	.	.	0.131	.	.	.	0.121	.	.	40 mm Ø x 15 mm
12X 15255Q	0.0193	.	.	.	0.152	.	.	.	0.150	.	.	-40 mm Ø x -15 mm
KUT B2/2	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 39 mm
IMZ 125	0.065	.	.	.	.	.	.	0.014	.	.	.	40 mm Ø x 40 mm
KUT A14	0.13	0.004	.	.	0.044	.	.	0.047	.	.	.	30-35 mm Ø x 39 mm
KUT B16	.	.	.	.	0.11	.	.	.	.	.	.	30-35 mm Ø x 39 mm
KUT B12	0.011	0.0035	.	.	0.022	.	.	.	.	.	(0.002)	30-35 mm Ø x 39 mm
KUT B4	.	.	.	.	.	.	.	.	.	.	0.09	30-35 mm Ø x 39 mm

## RM RESULFURIZED STEEL XRF SET

Part Number: BS RESUL-4 AVAILABLE INDIVIDUALLY

-7 mm discs

Grade	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	Co	N	Sn	V	As
1117	BS 65C	0.150	1.19	0.007	0.115	0.24	0.24	0.063	0.066	0.012	(0.002)	(0.007)	0.0084	0.02	0.002	(0.008)
1140 + P	BS 52D	0.436	0.97	0.068	0.088	0.18	0.060	0.18	0.16	0.09	0.028	0.012	0.0025	0.004	0.002	.
1141	BS 66B	0.418	1.57	0.018	0.110	0.02	0.031	0.033	0.094	0.019	0.002	0.005	(0.006)	0.001	0.002	.
1215	BS 66K	0.051	0.86	0.062	0.322	(0.004)	0.013	0.012	0.006	0.003	0.002	0.005	(0.0074)	<0.001	0.001	.



## LOW ALLOY STEEL WITH C &gt; 0.3%

## CONTINUED ON THE NEXT PAGE

# = Class, where 1=CRM, 2=RM, 3=RM no uncertainties

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Als	Co	Mo	N	Nb	Ti
1	VS UG0/6	1.40	0.329	(0.006)	(0.003)	0.221	0.286	0.55	0.73	0.129	(0.002)	(0.01)	0.079			0.0052
1	CKD 182B	1.39	0.370	0.008	0.006	0.126	0.293	2.82	0.122	0.023	0.017	0.171	0.011	0.0049	0.001	0.004
1	CKD 182C	1.36	0.363	0.009	0.008	0.111	0.294	2.80	0.123	0.028		0.171	0.012	0.0049	0.001	0.002
1	VS UG0/9	1.33	0.273	0.040	0.0045	0.270	0.307	0.56	0.59	0.101	(0.001)		0.024	0.0022	0.041	0.019
1	VS UG0/10	1.321	0.268	0.0090	0.0044	0.244	0.265	0.353	0.596	0.101			0.052	0.0120	0.0033	0.017
1	VS UG0/5	1.32	(0.2)	(0.01)	(0.007)	(0.2)	0.265	0.351	0.60	0.108			(0.05)		(0.01)	(0.01)
1	SS 402/2	1.311	0.288	0.0161	0.0138	0.111	0.302	0.808	0.652	0.161			0.140	0.0069		
1	ECRM 035-2D	1.277	0.305	0.0038	0.011	0.216	0.0085	0.0190	0.0104	0.0193			0.0056	0.0230		0.0030
1	IMZ 65/2	1.19	0.27	0.013	0.007	0.13	0.059	0.067	0.079	0.030						
1	KUT A18	1.16	(1.99)	0.014	0.007	0.15	0.066	0.125	0.90	(0.2)					0.035	0.011
1	VS UG9/5	1.10	0.25	(0.01)	(0.007)	0.31	0.125	0.183	0.36	0.017			0.29		(0.002)	0.109
3	CZ CM-5B	1.09	1.28	0.021	0.012	0.39	0.13	0.23	2.07	0.083		0.022	0.10	0.0135	0.06	0.05
1	14X 72305A	1.085	0.349	0.0128	0.0028	0.206	0.149	0.089	0.425	0.0049			0.0231			
1	SRM 1761a	(1.05)	0.679	0.042	0.037	0.182	0.298	1.981	0.222	0.055		(0.027)	0.103	(0.0042)	0.021	0.173
2	CZ CM-5C	1.04	1.17	0.029	0.021	0.54	0.151	0.42	2.45	0.063		0.022	0.132	0.014	0.014	0.031
1	VS UG9/9	1.04	0.310	0.0053	0.021	0.319	0.163	0.242	0.310	0.073	(0.003)		0.308	0.0027	0.0046	0.130
1	IMZ 172	1.03	0.71	0.018	0.047	0.21	0.128	0.12	4.47	0.062		0.012	0.96	0.0192		(0.002)
1	NM PC-5	1.03	0.52	0.073	0.022	0.12	0.22	0.19	1.19							
1	BS 2952	1.03	0.33	0.013	0.014	0.32	0.106	0.135	1.36	0.024		0.007	0.044	(0.0084)		0.003
1	12X 52986A	1.023	0.372	0.0049	0.0011	0.246	0.077	0.0411	1.418	0.0258	(0.002)		0.0169	(0.002)		
2	BS 53G	1.02	0.35	0.014	0.015	0.23	0.160	0.090	1.53	0.019		0.008	0.034	0.0084		(0.002)
1	CKD 184A	1.013	2.23	0.028	(0.01)	0.348	0.089	0.250	2.33	0.022	0.016	0.007	0.016	0.0104	0.013	0.010
1	NILAB 100LA D	1.002	0.333	0.012	0.018		0.019	0.027	1.517	0.005		0.007	0.012	0.0046		0.0007
1	IRSID 1747	0.990	0.333	0.0078	0.0068	0.222	0.1243	0.0850	1.501		0.0392	0.0110	0.0141	0.0084	(0.00025)	0.0041
1	IARM 324A	0.99	1.01	0.009	0.028	0.163	0.22	0.081	0.42	0.002		0.007	0.022	0.0082	0.014	0.0016
1	IARM 49D	0.99	0.39	0.0173	0.0059	0.24	0.120	0.061	1.53	0.018		(0.006)	0.016	0.0102	0.0009	0.0020
2	BS A485-1	0.98	1.10	0.019	0.004	0.62	0.16	0.13	1.07	0.017		0.010	0.029	0.0060		0.003
1	KUT B15	0.98	0.69	0.030	0.031	0.80	0.14	0.15	3.70	0.13		0.21	1.20			(0.32)
1	VS UG75	0.98	0.286	0.0127	0.0089	0.248	0.111	0.201	1.43	(0.03)			(0.01)		(0.01)	(0.001)
2	CZ LA-4C	0.95	1.63	0.021	0.012	0.07	0.056	0.045	1.78	0.048		(0.006)	0.008	0.012	0.053	(0.002)
1	12X 19965A	0.936	0.600	0.0196	0.0081	0.247	0.148	0.141	1.713	0.0256			0.210	0.0087		
1	SS 401/2	0.935	1.197	0.0265	0.0078	0.162	0.101	0.019	0.138	0.074		0.042	0.495	(0.015)		
1	IMZ 119	0.93	1.15	0.018	0.006	0.16	0.042	0.049	0.062	0.010	0.007			0.0086		(0.0007)
1	VS UG3/5	0.93	0.98	(0.03)	(0.005)	0.79	0.10	0.97	0.77	0.10			0.048		0.21	0.29
1	VS UG89	0.92	0.76	0.0085	0.01	0.385	0.373	0.51	0.420	0.01	0.007		0.044	0.017	0.0043	0.012
1	VS UG110	0.91	0.86	0.0063	0.0050	0.342	0.377	0.491	0.47	0.006			0.0052			0.0015
1	VS UG21/6	0.83	0.74	(0.02)	(0.02)	0.312	0.346	0.47	0.50							
1	12X LA45C	0.783	0.726	0.0577	0.0261	0.493	0.158	0.484	0.678	0.10		0.166	0.305			
2	IARM 172A	0.78	0.010	0.007	0.004	1.29	0.40	0.025	3.52	0.39		0.006	0.014	0.0004	0.004	0.003
1	SS 403/2	0.750	1.677	0.055	0.0381	0.209	0.221	0.223	0.463	0.0485			0.088	(0.010)		
1	IMZ 64/2	0.75	0.47	0.012	(0.005)	0.22	0.12	0.081	0.090	0.020						
1	ECRM 059-2D	0.721	0.495	0.0046	0.0084	0.188	0.0074	0.0198	0.0090	0.00045	0.00020		0.0018	0.0051		
2	CZ CM-1C	0.72	1.73	0.023	0.025	0.31	0.18	0.52	0.47	0.034		0.026	0.084	0.009	0.054	0.066
2	CZ CM-4B	0.72	0.50	0.023	0.012	0.80	0.40	1.40	2.23	0.025		0.115	0.33	0.013	0.071	0.12
1	SS 404/2	0.696	0.532	0.0479	0.0228	1.121	0.427	0.393	0.774	0.017			0.307	0.0089		
1	IMZ 118	0.69	1.72	0.026	(0.049)	0.30	0.18	0.19	0.14	(0.014)	(0.004)		0.058	0.0120		
1	IMZ 116	0.64	0.94	0.025	0.035	0.25	0.33	0.022	0.72	0.025	0.012		0.074	0.0130		(0.0008)
1	VS UG96	0.60	0.52	0.0046	0.0029	0.290	0.256	0.396	0.399	0.031			0.0042			0.0025
1	SRM 1764A	0.592	1.193	0.0210	0.0118	0.0595	0.5178	0.2006	1.468	0.0098		(0.012)	0.2007	(0.0023)	0.0416	0.0286
1	DSZU C07	0.589	0.903	0.033	0.037	1.00	0.130	0.263	0.201	0.039		0.165	0.377		0.091	0.059
1	VS UG119	0.55	0.70	0.012	(0.02)	1.63	0.207	0.142	0.195	0.039			0.0113	0.0047		0.0030
1	12X 10550	0.549	0.685	0.0184	0.0055	0.281	0.0290	0.0247	0.338	0.0325			0.0086	0.0051		
1	12X LA48	0.537	0.303	0.0363	0.039	0.335	0.334	0.521	0.493	0.057		0.105	0.489	0.0222		
1	12X 61500A	0.530	0.912	0.0104	0.0102	2.40	0.157	0.056	1.023	(0.007)	0.0067		0.0195			
2	CZ CM-6A	0.52	0.37	0.016	0.058	0.27	0.05	0.19	0.37	0.02		0.03	0.04	0.009	0.028	0.03
2	CZ BO-2B	0.515	0.745	0.0093	0.0016	0.309	0.100	0.057	0.212	0.0196		0.0055	0.006	0.004		0.0017
1	12X LA3C *	0.50	1.68	0.028	0.04	0.17	0.21	0.29	0.37	0.04		0.048	0.31	0.003		
1	IARM 34C	0.50	0.739	0.0090	0.0011	0.30	0.078	0.085	0.914	0.068		0.005	0.022	0.0030	0.004	0.0045
2	BS 43A	0.491	0.811	0.008	0.026	0.252	0.184	0.242	0.93	0.003		0.008	0.059	0.0074		0.002
2	BS 4941	0.490	0.79	0.012	0.017	0.27	0.106	0.074	0.96	0.024		0.008	0.039	0.0076		
#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Als	Co	Mo	N	Nb	Ti
1	IMZ 103A	0.49	0.78	0.066	0.051	0.42	0.27	0.57	0.58	0.026		0.002	0.18		0.040	0.17
1	IMZ 117	0.49	0.77	0.038	0.015	0.34	0.41	0.29	0.94	0.023	0.013		0.024	0.0154	0.041	(0.0014)
1	BS 1144	0.483	1.55	0.022	0.243	0.262	0.462	0.097	0.193	(0.002)		0.011	0.017	0.0093	(0.004)	0.002
1	IPT 503	0.456	0.682	0.027	0.027	0.218	0.129	0.063	0.160	0.018		0.006	0.20	0.0082		0.0011
1	SRM C1173	0.453	0.174	0.031	0.092	1.38	0.204	4.04	2.63				1.46			0.037
1	12X 41450A	0.446	1.011	0.0093	0.0031	0.261	0.1318	0.187	1.194	0.0220			0.340	0.0080		
2	BS XCCV	0.44	1.75	0.012	0.024	0.28	0.015	0.019	0.041	0.033		0.006	0.007	0.0056	(0.002)	(0.002)
1	12X LA3B	0.439	1.176	0.0215	0.0379	0.16	0.173	0.300	0.357	0.0300		0.0300	0.302	0.0080		

LOW ALLOY STEEL WITH C > 0.3%

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Number	As	B	Ca	Fe	Mg	O	Pb	Sb	Sn	Ta	V	W	Zr	Units
VS UG0/6							(<0.0005)	(<0.0005)	0.0032		0.0046			~45 mm Ø x ~28 mm last
CKD 182B	0.005	0.0003					(0.000)	0.001	0.004	0.000	0.027	0.016	0.001	44 mm Ø x 13 or 25 mm
CKD 182C	(0.005)	0.0003					(0.001)	(0.001)	(0.004)	(0.001)	0.028	0.018	(0.001)	44 mm Ø x 13 or 25 mm
VS UG0/9		(0.0002)					(0.002)		(0.008)		0.087	0.074		~45 mm Ø x ~28 mm
VS UG0/10									0.0043		0.0037	(0.006)		~45 mm Ø x ~28 mm
VS UG0/5											(0.01)	(0.01)		~45 mm Ø x ~28 mm
SS 402/2											0.194			38 mm Ø x 19 mm
ECRM 035-2D	0.0017													40 mm Ø x 20 mm
IMZ 65/2														40 mm Ø x 40 mm
KUT A18	0.003	(0.011)						0.005	0.016		0.10			30-35mm Ø x 39 mm
VS UG9/5											0.19	1.63		~45 mm Ø x ~28 mm
CZ CM-5B	0.018	0.002					0.01	0.006	0.012		0.06	0.03	0.09	~37 mm Ø x 25 mm
14X 72305A									0.0101		0.0045			~40 mm Ø x ~15 mm
SRM 1761a	(0.011)	0.0023		(95)				(0.0052)	(0.050)	(0.050)	0.054			34 mm Ø x 19 mm
CZ CM-5C	0.020	0.0012	(0.0006)				0.009	0.005	0.018		0.106	0.034	(0.07)	~39 mm Ø x 25 mm
VS UG9/9		(0.0002)					(0.002)		(0.001)		0.215	1.60		~45 mm Ø x ~28 mm
IMZ 172									0.010		0.20	0.011		40 mm Ø x 40 mm
NM PC-5														40 mm Ø x 20 mm
BS 2952	0.004		0.0003			(0.002)		0.003	0.006		0.005			44 mm Ø x ~7 or 19+ mm
12X 52986A									0.0063		0.0615			~38 mm Ø x ~15 mm
BS 53G	0.004	(0.0001)	(0.0001)			0.001			0.007		0.006	(0.13)		44 mm Ø x ~7 or 19+ mm
CKD 184A	0.006	0.0005					(0.000)	0.002	0.008	0.000	0.017	(0.001)	(0.002)	44 mm Ø x 13 or 25 mm
NILAB 100LA D	0.004										0.004			34 mm Ø x 20 mm
IRSID 1747	0.0170	(0.00015)	(0.00030)		(0.00022)		(0.00025)	(0.0034)	0.0105		0.0046		(0.0001)	37 mm Ø x 30 mm
IARM 324A	0.006	0.0004	0.0009			0.003		(0.002)	0.011		0.0017	(0.003)	(0.001)	31 mm Ø x 2 or 18 mm
IARM 49D	0.004	(0.0004)				0.0008	(0.0004)	0.0016	0.0076	(0.001)	0.0034	(0.004)		31 mm Ø x 2 mm
BS A485-1	0.006					(0.0008)			0.011		0.003			39 mm Ø x ~7 or 19+ mm
KUT B15											(0.33)			30-35mm Ø x 39 mm
VS UG75											(0.006)	(0.02)		~40 mm Ø x ~26 mm
CZ LA-4C	(0.003)	0.0005							(0.006)		(0.010)	0.008		~37 mm Ø x 25 mm
12X 19965A									0.0070		0.0087		Zn:0.0008	~41 mm Ø x ~15 mm
SS 401/2											0.496			38 mm Ø x 19 mm
IMZ 119			(0.0002)								0.006			40 mm Ø x 40 mm
VS UG3/5											0.54	0.81		~45 mm Ø x ~28 mm
VS UG89	0.0043						0.0003	0.0011			0.021			~47 mm Ø x ~30 mm
VS UG110												0.004		~45 mm Ø x ~25 mm
VS UG21/6														~45 mm Ø x ~28 mm
12X LA5C	0.0085						0.0085		0.0100		0.579		Zn:0.0091	~40 mm Ø x ~15 mm
IARM 172A	(0.005)	0.0003				0.0006	(<0.01)		0.003		0.003	0.038		31 mm Ø x 2 or 18 mm
SS 403/2											0.341			38 mm Ø x 19 mm
IMZ 64/2														40 mm Ø x 40 mm
ECRM 059-2D														38 mm Ø x 25 or 30 mm
CZ CM-1C	0.036	0.0020	0.0007				0.005	0.01	0.012		0.073	0.064	0.051	~39 mm Ø x 25 mm
CZ CM-4B	0.015	0.017					0.022	0.052	0.028		0.18	0.116	Zn:0.007	~39 mm Ø x 25 mm
SS 404/2											0.107			38 mm Ø x 19 mm
IMZ 118			(0.0002)						0.22		0.059			40 mm Ø x 40 mm
IMZ 116											0.076			40 mm Ø x 40 mm
VS UG96											0.0030			~40 mm Ø x ~28 mm
SRM 1764a	0.0100	(0.0010)		(95.1)					(0.024)	0.0297	0.1063	(0.0016)	(0.0012)	34 mm Ø x 19 mm
DSZU C07	(0.0005)	0.005					(0.0003)	(0.0005)	(0.0026)		0.988	0.140		40 mm Ø x 30 mm
VS UG119									0.0018					~45 mm Ø x ~25 mm
12X 10550	0.0059												Zn:(0.0016)	~40 mm Ø x ~15 mm
12X LA4B											0.328	0.091		42 mm Ø x 15 mm
12X 61500A									0.0114		0.110		Zn:0.0055	~38 mm Ø x ~15 mm
CZ CM-6A	0.025	0.015					0.017	0.03	0.017		0.05	0.04	0.04	~39 mm Ø x 25 mm
CZ BO-2B	0.0057		(0.0008)						0.0062		(0.001)	(0.005)		~37 mm Ø x ~25 mm
12X LA3C *	0.034										0.16	Zn:0.003	0.02	~40 mm Ø x ~15 mm
IARM 34C	0.0024	0.0003	(0.0004)			0.0008	(0.0003)	(0.001)	0.0058		0.206	(0.003)	(0.001)	31 mm Ø x 2 or 18 mm
BS 43A									0.011		0.148			41 mm Ø x ~7 or 19+ mm
BS 4941	(0.004)		(0.0002)			0.0017			0.006		0.164			41 mm Ø x ~7 or 19+ mm
Number	As	B	Ca	Fe	Mg	O	Pb	Sb	Sn	Ta	V	W	Zr	Units
IMZ 103A		0.006							(0.005)		0.17			40 mm Ø x 40 mm
IMZ 117			(0.0002)								0.087			40 mm Ø x 40 mm
<b>BS 1144</b>	0.009					0.0016	(0.001)		0.0113		0.0039	(0.003)	last	38 mm Ø x 19 mm <b>17025</b>
IPT 503							0.008							35 mm Ø x 20 mm
SRM C1173											0.42			32 mm Ø x 19 mm
12X 41450A	0.0053								0.0090		0.0385			~38 mm Ø ~15 mm
BS XCCV	0.002				(0.0018)		(<0.0006)	(0.0003)	(0.0004)		(0.0003)		(0.0002)	36 mm Ø x ~7 or 19+ mm
12X LA3B		0.0015					0.0149				Zn:0.0098	0.157	(0.027)	~40 mm Ø x ~15 mm
NM PC-4														40 mm Ø x 20 mm
<b>BS 4340A</b>	0.0059	(0.0002)	(0.0002)	95.4	0.0004	0.0007	(0.0003)	(0.0018)	0.0081		0.0024	0.0005	0.0016	38 mm Ø x ~7 or 19+ mm <b>17025</b>
SRM 1173											0.42			32 mm Ø x 19 mm
BS FE2015-N											0.006			35 mm Ø x 20 mm
<b>BS 4140</b>	0.0043	(0.0002)	0.0005	95.5	(0.0002)	0.0012	(0.0002)	(0.0013)	0.0063		0.0033	0.0012	0.0005	38 mm Ø x ~7 or 19+ mm <b>17025</b>
IARM 252C	0.004	(0.0001)	(0.0003)			(0.002)	0.001	<0.005	0.007		0.005	<0.005	<0.002	31 mm Ø x 2 mm
BS 4942	0.005		0.0006			(0.0021)			0.014		0.28			38 mm Ø x ~7 or 19+ mm last
<b>BS 1962</b>	0.007		<b>25(pre-17025)</b>		(0.0001)		(0.001)		0.010		0.004			41 mm Ø x ~7 or 19+ mm
VS UG116														~45 mm Ø x ~25 mm
<b>BS 67C</b>						(0.0014)			0.010		0.0022		<b>17025</b>	38 mm Ø x ~7 or 19+ mm
SS 114	0.0025	0.0008							0.041		0.0086			44 mm Ø x 19 or 50 mm
IMZ 63/2													0.0051	40 mm Ø x 40 mm
SS 225/2														38 mm Ø x 19 mm
IPT 504														36 mm Ø x 20 mm
12X 826M40A	0.0056								0.0085					~38 mm Ø x ~15 mm
DSZU C06	(0.003)	0.003					(0.002)		(0.006)		0.072	0.026	(0.0001)	40 mm Ø x 30 mm
<b>BS 4942A</b>	0.0031	(0.0001)	0.0012	96.8	0.0004	0.0020	(0.0007)	(0.001)	0.0044		0.280	(0.0009)	(0.001)	38 mm Ø x ~7 or 19+ mm <b>17025</b>
CKD 186D	0.007	0.0009							0.018	0.008	0.021	0.054	(0.002)	44 mm Ø x 13 or 25 mm
IARM 31F	(0.005)	0.0003	0.0005		(0.0003)	(0.001)	(0.001)	(0.002)	0.015	(0.003)	0.0028	(0.005)	(0.001)	31 mm Ø x 2 mm
VS RG30/1											0.70	0.89		~45 mm Ø x ~28 mm
VS UG79											(0.02)	(0.01)		~40 mm Ø x ~26 mm
IRSID 1731														44 mm Ø x 30 mm
DSZU C045	0.0052	(0.0004)	0.0005						0.0050		0.004	(0.011)		40 mm Ø x 25 mm
CZ LA-5B	0.016	0.0009					0.015	0.011	0.028		0.47	0.59	0.017	~39 mm Ø x 25 mm
VS UG3/10									0.0057		0.0053	0.006		~45 mm Ø x ~28 mm
12X														

## LOW ALLOY STEEL WITH 0.13 % &lt; C &lt; 0.3 %

CONTINUED ON THE NEXT PAGE

# = Class, where 1 = CRM and 2 = RM

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Als	As	Co	Mo	N	Sn	V	
1	IARM 330A	0.299	1.00	(0.005)	(0.001)	0.273	0.074	1.80	0.90	0.045	.	(0.003)	0.0063	0.404	0.0024	0.0039	0.071	
1	SRM 1269	0.298	1.35	0.012	0.0061	0.189	0.095	0.108	0.201	0.016	.	.	0.036	0.036	.	.	0.004	
1	12X 352D	0.298	0.627	0.066	0.125	0.338	0.144	0.334	0.423	0.146	.	0.0095	0.0504	0.257	.	0.105	0.0584	
1	ECRM 086-1D	0.297	0.879	0.024	0.037	0.206	0.320	0.168	0.150	0.023	.	.	0.023	0.023	.	0.026	.	
2	RM Fe 2/3	0.296	0.69	0.042	0.013	0.45	0.36	0.83	0.59	0.015	.	0.045	0.053	0.31	0.0197	0.033	0.33	
2	CZ CM-3A	0.295	0.37	0.016	0.0013	0.27	0.16	1.82	1.87	0.05	.	0.005	0.012	0.33	0.007	0.007	0.007	
1	VS UG9/10	0.294	0.616	.	(0.003)	0.235	0.169	0.144	0.170	0.280	.	.	0.282	0.282	0.015	0.0017	1.25	
2	HRT FE2000-N	0.294	0.49	0.014	0.007	0.30	0.07	1.96	1.99	0.025	.	.	0.012	0.34	.	.	0.017	
1	VS RG27/1	0.290	0.74	0.044	0.0043	0.28	0.208	0.142	1.83	1.07	.	.	0.025	0.191	.	.	0.072	
1	IMZ 178	0.29	0.65	0.016	0.003	0.28	0.140	2.09	1.26	0.051	.	.	0.015	0.20	0.0160	0.011	0.011	
1	12X 15254Z	0.285	1.117	0.043	0.047	0.916	0.123	0.394	2.12	0.599	.	.	0.550	0.758	.	0.0651	0.290	
1	SRM 1225	0.274	0.48	0.007	0.014	0.221	0.018	0.91	0.91	.	.	.	0.166	0.166	.	.	0.004	
1	<b>BS HiCal-1</b>	0.271	1.00	(0.007)	0.0007	1.29	0.152	3.28	1.55	0.070	.	0.0022	0.0024	0.379	.	(0.0002)	0.0027	
2	BS 69B	0.258	1.28	0.008	0.013	1.27	0.086	1.71	0.28	0.024	.	.	0.035	0.39	0.0057	0.006	(0.002)	
1	12X 12750U	0.258	0.510	0.0078	0.0053	0.599	0.106	0.786	0.792	0.253	.	.	0.581	0.088	.	0.110	0.102	
1	12X 32550A	0.257	1.350	0.0061	0.0054	1.59	0.108	1.750	0.377	0.0178	.	0.0054	.	0.417	0.0101	0.0206	0.0222	
1	IARM 195B	0.255	1.84	0.018	0.005	1.16	0.52	1.00	0.216	0.029	.	.	0.021	0.101	0.0052	0.0070	0.084	
2	BS 6418	0.255	1.42	0.010	0.004	1.54	0.11	1.74	0.34	0.027	.	0.0044	0.010	0.42	0.0066	0.006	0.003	
1	VS UG6/9	0.248	0.366	0.020	0.0084	0.404	0.239	0.328	1.79	0.55	.	(0.001)	.	0.205	0.0050	0.111	0.351	
1	IRSID 1741	(0.244)	0.466	0.037	.	0.380	0.117	0.962	.	(0.102)	.	.	.	0.204	.	0.059	0.051	
1	CKD 181B	0.240	0.988	0.042	0.008	0.445	0.095	0.737	0.669	0.016	0.014	0.029	0.050	0.395	(0.005)	0.122	0.307	
1	IMZ 113	0.24	0.50	0.022	0.025	0.10	0.11	0.13	1.25	0.007	0.004	.	.	0.050	0.0154	.	0.039	
1	DSZU C043	0.239	2.18	0.054	0.070	0.114	0.50	2.93	0.44	0.071	.	.	0.0017	0.005	0.146	0.0100	0.0023	0.366
1	12X 722M24A	0.236	0.510	0.0135	0.0199	0.262	0.200	0.208	3.094	0.0187	.	0.0075	.	0.497	.	0.0116	0.0080	
1	VS UG6/5	0.232	0.39	(0.006)	(0.008)	0.51	0.257	(0.2)	1.85	(0.4)	.	.	.	(0.2)	.	.	0.34	
1	IARM 229B *	0.22	0.86	0.008	0.011	0.33	0.015	0.029	0.016	0.026	.	0.0011	0.011	0.49	0.007	0.001	0.006	
1	ECRM 197-1D	0.219	0.792	0.0073	0.0232	0.275	0.152	0.148	0.451	0.0313	.	0.0083	0.0135	0.402	0.0114	0.0097	.	
2	BS 3961	0.215	0.565	0.016	0.022	0.236	0.133	1.67	0.510	0.022	.	.	(0.010)	0.27	0.0079	(0.008)	(0.002)	
2	TL 1668	0.2146	1.643	0.0137	0.0012	1.645	0.0108	0.0164	0.0173	0.0371	.	0.0016	0.0031	(0.0014)	0.0043	0.0047	0.0016	
1	IPT 502	0.210	0.823	0.018	0.026	0.198	0.121	0.408	0.485	0.024	.	.	0.0083	0.155	0.0069	.	.	
1	BS 8620E	0.210	0.800	0.011	0.0238	0.255	0.186	0.564	0.541	0.027	.	0.0044	0.0068	0.223	0.0080	0.011	0.0024	
1	IARM 33D	0.209	0.593	0.009	0.023	0.207	0.072	1.78	0.139	0.026	.	0.0035	0.008	0.229	0.0053	0.005	0.002	
2	BS 3952	0.208	0.546	0.011	0.021	0.264	0.202	0.112	0.105	0.048	.	.	.	0.519	(0.0005)	.	.	
1	ECRM 187-2D	0.2038	1.257	0.0066	(0.0300)	0.2111	0.1288	0.1755	1.132	0.0223	.	0.0057	0.0112	0.0623	0.0105	0.0237	0.0122	
1	<b>BS 9325A</b>	0.203	0.969	0.0079	0.0045	0.612	0.163	3.29	1.50	0.0056	.	0.0024	0.0093	0.358	0.0076	(0.0003)	(0.0024)	

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Als	As	Co	Mo	N	Sn	V
1	<b>BS 4820A</b>	0.203	0.64	0.008	0.014	0.185	0.212	3.28	0.116	0.029	.	0.006	0.008	0.203	0.0076	0.0097	0.0010
1	SRM 1763a	0.202	1.584	0.0123	0.022	0.633	0.042	0.513	0.498	0.0435	.	0.055	0.093	0.490	(0.0045)	(0.011)	0.307
1	VS RG29/1	0.202	0.29	0.009	0.0090	0.22	1.25	4.71	0.89	0.0050	.	.	0.115	1.01	.	.	0.40
1	VS RG31/1	0.200	0.191	0.0039	0.0058	0.28	0.39	2.12	1.28	0.30	.	.	0.273	0.30	.	.	0.200
1	KUT B3	0.20	0.14	(0.012)	0.025	0.53	0.25	.	5.94	.	.	.	.	.	.	.	1.16
1	VS UG5/5	(0.2)	0.52	(0.005)	(0.03)	0.145	0.37	0.42	1.42	0.19	.	.	.	0.44	.	.	0.29
1	12X 86200A	0.198	0.849	0.0110	0.0104	0.299	0.213	0.598	0.602	0.0305	.	0.0051	.	0.224	0.0091	0.0100	0.0045
1	12X LA2E	0.195	0.57	0.0241	0.0263	0.678	0.786	0.783	0.833	1.381	.	0.282	0.0306	0.136	0.0173	0.0066	0.0990
1	IMZ 112	0.195	0.43	0.022	0.016	0.27	0.055	0.046	0.034	0.034	0.024	.	.	0.043	0.010	0.15	0.045
1	12X 349D	0.194	0.498	0.0162	0.0232	0.201	0.106	0.289	0.268	0.149	.	0.0096	0.021	0.123	.	0.153	0.0172
1	VS UG8/10	0.192	1.81	0.0064	(0.005)	0.61	0.198	0.348	0.729	0.082	.	.	.	0.030	0.0185	0.0052	.
1	VS UG114	0.190	1.65	0.010	0.0074	0.59	0.173	0.345	1.03	0.146	.	.	.	0.016	.	.	0.0031
2	BS 51F	0.190	0.52	0.016	0.018	0.24	0.231	1.68	0.157	0.021	.	(0.0024)	0.009	0.224	0.0060	0.009	0.003
1	IMZ 162	0.19	1.31	0.021	0.014	0.59	0.077	1.64	0.91	(0.040)	.	.	.	0.52	.	.	0.045
1	VS UG113	0.189	1.55	0.0087	0.0070	0.59	0.185	0.186	1.12	0.263	.	.	.	0.010	.	.	0.0040
2	BS 4620	0.189	0.57	0.006	0.018	0.25	0.216	1.75	0.072	0.032	.	0.0084	0.012	0.24	0.0078	0.013	(0.0008)
1	ECRM 192-1D	0.1875	1.377	0.0029	0.0010	0.219	0.0453	0.755	0.0717	0.0306	0.0285	.	0.0055	0.482	0.0118	.	.
1	VS UG112	0.186	1.63	0.0065	0.0050	0.60	0.157	0.185	0.98	0.026	.	.	.	0.021	.	.	0.014
1	DSZU C08	0.184	0.756	0.019	0.008	0.389	0.550	(6.6)	2.34	0.011	.	(0.011)	0.062	0.514	.	(0.014)	0.216
1	IARM 33C	0.184	0.562	0.009	0.017	0.25	0.223	1.71	0.133	0.025	.	(0.005)	0.008	0.236	0.0078	0.009	0.0021
2	BS LF3	0.183	0.52	0.006	0.018	0.206	0.080	3.36	0.098	0.017	.	0.006	0.056	0.056	0.0054	0.006	(0.002)
2	HRT FE2012-N	0.18	0.70	0.010	0.008	0.31	0.14	0.13	0.25	0.030	.	.	0.26	.	.	.	.
1	IMZ 74A	0.179	1.19	0.008	0.010	0.34	0.209	0.130	0.197	0.012	.	.	0.0043	0.047	0.0118	.	0.072
1	12X 19MNV56A	0.174	1.563	0.0114	0.0245	0.357	0.203	0.110	0.1087	0.0101	.	.	0.0270	0.0210	0.0214	0.0214	0.0939
1	ECRM 087-1D	0.174	0.671	0.010	0.046	0.263	0.171	0.118	0.078	.	.	0.024	0.015	0.021	.	0.017	.
1	12X 15253S	0.173	0.992	0.0552	0.053	0.299	0.326	0.506	1.505	0.024	.	0.0259	0.0898	0.513	0.0235	0.129	0.242
1	12X 15180A	0.170	1.196	0.0110	0.0022	0.212	0.141	0.1030	0.118	0.018	.	0.0117	.	0.0231	0.0051	0.0115	.
2	HRT FE2013-N	0.17	0.57	0.013	0.010	0.33	0.09	1.45	1.52	0.026	.	.	.	0.26	.	.	.
1	ECRM 194-2D	0.1694	1.282	0.0137	0.00049	0.2974	0.0313	0.3316	0.760	0.0669	.	0.00208	0.00328	0.402	0.00319	.	0.00161
2	BS 3962	0.168	0.58	0.007	0.018	0.244	0.146	1.83	0.138	0.023	.	0.005	0.007	0.219	0.0072	0.007	(0.001)
2	CZ CM-8A	0.16	2.13	0.007	0.011	0.18	0.03	0.03	1.38	0.02	.	(0.002)	0.004	(0.001)	.	(0.003)	0.008
2	HRT FE1999-N	0.16	0.59	0.011	0.005	0.22	0.11	0.09	0.87	0.027	.	.	0.46	.	0.0091	.	0.021
2	BS XCCT	0.158	0.52	0.005	0.011	0.28	0.027	1.27	0.65	0.006	.	0.004	0.017	0.020	0.0076	(0.002)	0.031
1	IMZ 176A	0.15	0.75	0.018	0.003	0.35	0.103	3.62	0.41	(0.058)	.	.	(0.010)	0.027	0.0129	0.009	(0.061)
1	12X 12747U	0.149	2.02	0.029	0.041	0.337	0.437	0.391	0.443	0.015	.	0.0114	0.200	0.500	.	0.167	0.0375
2	BS 15A	0.142	1.12	0.016	0.008	0.058	0.030	0.029	0.044	0.041	.	0.003	0.005	0.008</			

LOW ALLOY STEEL WITH 0.13 % &lt; C &lt; 0.3 %

CONTINUED FROM THE PREVIOUS PAGE

Number	B	Ca	Fe	Mg	Nb	O	Pb	Sb	Ta	Ti	W	Zn	Zr	Units
IARM 330A	0.0003	0.0010	.	.	(0.003)	(0.0009)	(0.0004)	(0.001)	.	0.006	(0.004)	.	0.0015	31 mm Ø x 2 mm
SRM 1269	.	.	.	.	.	.	0.005	.	.	.	.	.	.	32 mm Ø x 19 mm
12X 352D	.	.	.	.	.	.	.	.	.	0.285	0.223	.	.	-40 mm Ø x -15 mm
ECRM 086-1D	.	.	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 25 or 30 mm
RM Fe 2/3	0.0015	<0.001	.	.	.	.	.	.	.	0.045	0.038	.	.	40 mm Ø x 40 mm
CZ CM-3A	0.0002	.	.	.	0.006	.	.	.	.	0.006	0.015	.	.	-39 mm Ø x 25 mm
VS UG9/10	.	.	.	.	.	.	.	.	.	0.163	1.34	.	.	-45 mm Ø x -28 mm
HRT FE2000-N	.	0.0015	.	.	.	.	.	.	.	.	0.025	.	.	40 mm Ø x 20 mm
VS RG27/1	.	.	.	.	.	.	.	.	.	0.110	0.170	.	.	-45 mm Ø x -28 mm
IMZ 178	.	.	.	.	0.105	.	.	.	.	.	0.017	.	.	40 mm Ø x 40 mm
12X 15254Z	.	.	.	.	0.347	.	.	.	.	0.303	0.349	.	.	-40 mm Ø x -15 mm
SRM 1225	.	.	.	.	.	.	.	.	.	.	.	.	.	32 mm Ø x 19 mm
<b>BS HiCal-1</b>	(0.0001)	0.0140 [91.9]	(0.0003)	(0.002)	.	.	(0.0005)	.	.	0.0037	(0.0009)	.	(0.0008)	-38 mm Ø x -30 mm <b>17025</b>
BS 69B	.	.	.	.	.	.	.	.	.	(0.002)	.	.	.	38 mm Ø x -7 or 19+ mm
12X 12750U	.	.	.	.	0.111	.	.	.	.	0.159	0.100	.	.	-40 mm Ø x -15 mm
12X 32550A	.	.	.	.	.	.	.	.	.	.	.	.	.	-38 mm Ø x -15 mm
IARM 195B	0.0039	0.0002	.	.	0.007	0.0017	0.002	0.011	.	0.002	0.38	.	0.002	31 mm Ø x 2 or 18 mm
BS 6418	.	.	.	.	.	0.0012	.	.	.	0.003	.	.	.	57 mm Ø x -7 or 19+ mm
VS UG6/9	(0.0003)	.	.	.	(<0.001)	.	0.008	.	.	0.015	0.136	.	.	-45 mm Ø x -28 mm last
IRSID 1741	.	.	.	.	.	.	.	.	.	(0.049)	.	.	.	38 mm Ø x 25 mm
CKD 181B	0.0076	.	(95.37)	.	0.062	.	0.0005	0.017	0.042	0.155	0.188	.	0.001	44 mm Ø x 13 or 25 mm
IMZ 113	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
DSZU C043	(0.0005)	0.0005	.	.	0.004	.	.	.	.	0.046	0.082	.	.	40 mm Ø x 25 mm
12X 722M24A	.	.	.	.	.	.	.	.	.	.	.	0.0028	.	-38 mm Ø x -15 mm
VS UG6/5	.	.	.	.	(0.01)	.	.	.	.	(0.01)	0.16	.	.	-45 mm Ø x -28 mm
IARM 229B *	(0.001)	(0.001)	.	.	(0.002)	(0.002)	* Provisional Analysis			0.002	(0.002)	.	(0.001)	31 mm Ø x 2 or 18 mm
ECRM 197-1D	.	.	.	.	.	.	.	.	.	0.0005	.	.	.	38 mm Ø x 20 mm
BS 3961	.	.	.	.	.	.	.	.	.	(<0.003)	.	.	.	44 mm Ø x -7 or 19+ mm
TL 1668	(0.00024)	0.0019	(0.0003)	(0.0002)	.	.	(0.0007)	(0.0003)	.	0.0032	.	0.0008	(0.0003)	37 mm Ø x 25 mm
IPT 502	.	.	.	.	.	.	.	.	.	0.0016	.	.	.	36 mm Ø x 20 mm
BS 8620E	(0.0003)	0.0010	97.2	(0.0003)	(0.002)	0.0016	(0.0008)	0.0015	(0.0004)	0.0016	0.0008	.	(0.0008)	38 mm Ø x -7 or 19+ mm
IARM 33D	0.0002	(0.0003)	.	.	0.002	0.0013	<0.001	(0.002)	.	0.003	<0.005	.	<0.002	31 mm Ø x 2 or 18 mm
BS 3952	.	.	.	.	.	.	.	.	.	.	.	.	.	39 mm Ø x -7 or 19+ mm
ECRM 187-2D	0.00048	.	.	.	.	.	.	.	.	.	.	.	.	39 mm Ø x 28 mm
<b>BS 9325A</b>	(0.0001)	0.0039	92.8	(0.0002)	0.0017	.	(0.0003)	.	(0.010)	0.0030	0.024	<b>17025</b>	(0.001)	-40 mm Ø x -30 mm
Number	B	Ca	Fe	Mg	Nb	O	Pb	Sb	Ta	Ti	W	Zn	Zr	Units
<b>BS 4820A</b>	0.0002	0.0003	.	0.0003	(0.002)	0.0011	(0.0002)	0.0024	.	0.0012	(0.002)	<b>17025</b>	.	38 mm Ø x -7 or 19+ mm
SRM 1763a	0.0054	(95.3)	.	.	0.100	(0.002)	.	(0.011)	(0.012)	0.308	(0.002)	.	0.044	34 mm Ø x 19 mm
VS RG29/1	.	.	.	.	0.044	.	.	.	.	0.020	0.62	.	.	-45 mm Ø x -28 mm
VS RG31/1	.	.	.	.	.	.	.	.	.	0.21	0.39	.	.	-45 mm Ø x -28 mm
KUT B3	.	.	.	.	.	.	.	.	.	.	1.19	.	.	30-35mm Ø x 39 mm
VS UG5/5	.	.	.	.	(0.01)	.	.	.	.	(0.003)	0.38	.	.	-45 mm Ø x -28 mm
12X 86200A	.	.	.	.	.	.	.	.	.	.	.	.	.	-38 mm Ø x -15 mm
12X LA2E	.	.	.	.	.	.	.	.	.	.	.	.	.	-40 mm Ø x -15 mm
IMZ 112	.	.	.	.	0.013	.	.	.	.	0.010	.	.	.	40 mm Ø x 40 mm
12X 349D	.	.	.	.	.	.	.	.	.	0.101	0.049	.	.	-40 mm Ø x -15 mm
VS UG8/10	.	.	.	.	(0.003)	.	.	.	.	0.0034	.	.	.	-45 mm Ø x -28 mm
VS UG114	.	.	.	.	.	.	.	.	.	0.006	.	.	0.065	-45 mm Ø x -25 mm
BS 51F	(0.0001)	(0.0005)	.	(0.0001)	(0.0005)	0.0020	(0.00007)	(0.0011)	.	(0.0012)	(0.0030)	(0.0002)	.	38 mm Ø x -7 or 19+ mm
IMZ 162	.	.	.	.	.	.	.	.	.	0.12	.	.	.	40 mm Ø x 40 mm
VS UG113	.	.	.	.	.	.	.	.	.	0.006	0.007	.	0.169	-45 mm Ø x -25 mm
BS 4620	0.00006	0.0001	.	0.0001	0.0001	0.0009	0.0002	0.0024	.	0.0026	0.0009	0.0002	.	38 mm Ø x -7 or 19+ mm
ECRM 192-1D	.	.	.	.	.	.	.	.	.	.	.	.	.	-35 mm Ø x -30 mm
VS UG112	.	.	.	.	.	.	.	.	.	0.0028	0.005	.	0.0047	-45 mm Ø x 25 mm
DSZU C08	0.011	.	.	.	0.122	.	.	.	.	0.060	0.966	(0.003)	(0.006)	40 mm Ø x 30 mm last
IARM 33C	(0.0002)	.	.	.	0.002	0.0021	<0.002	.	.	0.0014	0.0026	.	.	31 mm Ø x 2 or 18 mm
BS LF3	0.0001	(0.0001)	.	.	.	0.004	.	.	.	.	.	.	.	38 mm Ø x -7 or 19+ mm
HRT FE2012-N	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 20 mm
IMZ 74A	(0.002)	(0.0004)	.	.	0.041	.	.	.	.	0.022	.	.	.	43 mm Ø x 20 mm
12X 19MNV56A	.	.	.	.	.	.	.	.	.	.	.	.	.	-40 mm Ø x -15 mm
ECRM 087-1D	.	.	.	.	.	.	.	0.0046	.	.	.	.	.	38 mm Ø x 25 or 30 mm
12X 15253S	.	.	.	.	0.383	.	.	.	0.011	.	0.265	.	.	-40 mm Ø x -15 mm
12X 15180A	.	.	.	.	.	.	.	.	.	.	.	0.0016	.	-40 mm Ø x -15 mm
HRT FE2013-N	.	.	.	.	.	.	.	.	.	.	.	.	.	34 mm Ø x 20 mm
ECRM 194-2D	0.00155	.	.	.	0.0290	.	.	.	.	0.00322	.	.	.	39 mm Ø x 28 mm
BS 3962	.	.	.	.	.	.	.	.	.	.	.	.	.	37 mm Ø x -7 or 19+ mm
CZ CM-8A	0.004	.	.	.	0.034	.	.	.	.	(0.001)	0.01	.	.	-39 mm Ø x 25 mm
HRT FE1999-N	0.0002	.	.	.	0.002	.	.	.	.	0.001	.	.	.	40 mm Ø x 20 mm
BS XCCT	.	.	.	.	(0.001)	(0.005)	(<0.001)	(0.0004)	.	(0.002)	.	.	(<0.002)	36 mm Ø x -7 or 19+ mm
IMZ 176A	.	.	.	.	.	.	.	.	.	.	(0.015)	.	.	40 mm Ø x 40 mm
12X 12747U	.	.	.	.	.	.	.	.	.	0.072	0.030	.	.	42 mm Ø x 15 mm
BS 15A	(0.0002)	(0.0005)	.	.	0.041	.	(0.0003)	(0.003)	.	0.008	(0.004)	.	0.022	32 mm Ø x 17 mm last
RM Fe C/2	0.0030	(0.0013)	.	.	0.0073	.	.	0.0190	.	0.0074	0.34	.	0.010	40 mm Ø x 40 mm
ECRM 193-1D	.	.	.	.	0.0232	.	.	.	.	(0.0013)	.	.	.	36-41 mm Ø x 28-35 mm
BS 45A	.	.	.	.	.	0.0025	.	0.0027	.	.	.	last	.	38 mm Ø x -7, -16, or 19 mm
BS 1972	(0.0001)	(0.0002)	.	.	(0.001)	(0.0026)	(0.001)	(0.004)	.	(0.003)	(0.004)	.	.	39 mm Ø x -7 or 19+ mm
BS 47A	.	.	.	.	0.002	(0.003)	.	.	.	0.003	.	.	.	38 mm Ø x -7 or 19+ mm
Number	B	Ca	Fe	Mg	Nb	O	Pb	Sb	Ta	Ti	W	Zn	Zr	Units

LOW ALLOY STEEL WITH C < 0.13 %

# = Class, where 1 = CRM and 2 = RM

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Als	Co	Mo	N	Sn	V
1	IMZ 76	0.129	1.37	0.022	0.011	0.24	0.057	0.33	0.12	0.011	.	.	0.101	.	.	(0.006)
1	VS UG86	0.129	0.217	(0.005)	(0.007)	(0.3)	0.62	1.94	1.52	.	.	.	0.311	.	.	0.327
1	BS 1982	0.128	0.441	0.012	0.026	0.255	0.177	0.197	2.09	0.021	.	0.010	0.89	0.0097	0.013	0.003
1	12X 15256Q	0.123	0.492	0.0125	0.0163	0.190	0.0550	5.33	0.362	0.1300	.	0.493	0.0740	0.0056	0.107	0.619
1	12X 93106A	0.122	0.605	0.0071	0.0103	0.206	0.199	3.255	1.107	0.0246	.	.	0.0879	0.0098	0.0094	0.0029
2	BS 47B	0.122	0.39	0.014	0.022	0.22	0.12	0.105	4.78	0.018	.	.	0.45	0.023	0.006	0.004
1	DSZU C042	0.120	0.562	0.0123	0.0058	0.319	0.131	0.203	0.962	0.023	.	0.009	0.286	0.0100	0.0064	0.178
1	CKD 187D	0.119	0.529	0.035	0.015	0.576	0.035	0.085	3.51	0.024	.	0.071	0.566	0.0120	0.013	0.560
1	CKD 187C	0.118	0.530	0.035	0.013	0.588	0.041	0.085	3.50	0.038	.	0.071	0.563	(0.0153)	0.014	0.559
1	VS UG115	0.115	0.43	0.0084	0.012	0.227	0.173	1.63	0.81	0.024	.	.	0.0126	0.013	.	.
1	IMZ 71	0.114	0.54	0.018	0.011	0.49	0.88	0.041	0.46	0.014	.	.	0.008	.	.	0.045
1	SRM 1138a	0.11	0.35	0.035	0.056	0.25	0.09	0.10	0.13	.	.	.	0.05	.	.	0.02
1	BS 9905	0.107	0.333	0.008	0.008	0.327	0.115	0.123	8.22	0.017	.	0.016	0.05	0.055	0.009	0.236
1	VS UG6710	0.107	0.225	0.0068	0.0067	0.342	0.626	2.04	1.41	0.46	.	.	0.339	0.0156	0.0023	0.194
1	12X 12748U	0.106	0.902	0.0309	0.050	0.221	0.347	0.376	0.401	0.111	.	0.323	0.329	.	0.080	0.0499
1	IPT 500	0.106	0.844	0.016	0.0048	0.282	0.270	0.018	0.612	0.046	.	0.0046	0.0013	0.0092	0.002	0.003
1	12X LA1B	0.104	1.262	0.0090	0.060	0.777	0.0572	0.210	1.026	0.0104	.	0.0144	0.068	0.0144	.	0.448
1	KUT A13	0.104	0.49	0.053	0.073	0.81	0.166	1.93	0.14	0.042	.	0.011	0.91	.	0.060	0.23
1	VS UG6/6	0.104	0.227	(0.007)	(0.007)	0.337	0.616	2.05	1.40	0.47	.	(0.008)	0.34	.	0.0023	0.193
2	BS 58E	0.100	0.63	0.009	0.002	0.29	0.154	3.22	1.40	0.029	.	0.013	0.110	0.0033	0.003	0.006
1	IMZ 175	0.099	0.25	0.016	0.0040	0.22	0.130	3.12	0.515	0.043	.	(0.013)	0.025	0.0099	0.011	0.014
2	BS 58C	0.098	0.57	0.011	0.014	0.29	0.14	3.20	1.29	(0.055)	.	.	0.11	.	(0.012)	.
1	IMZ 73	0.097	0.68	0.019	0.013	0.12	0.17	0.13	0.079	0.010	.	.	0.013	.	.	0.022
1	KUT T3/2	0.09	0.60	0.058	0.033	0.65	0.10	0.11	0.40	.	.	.	.	.	.	.
1	12X LA6B	0.089	0.148	0.0115	0.0097	0.133	0.071	0.0112	0.0377	0.204	.	0.0067	0.0073	0.0034	.	0.0162
1	VS UG5/10	0.088	0.177	0.0067	0.0055	0.135	0.490	1.87	1.51	0.47	.	.	0.049	0.0059	0.0036	0.121
1	IARM 268B	0.087	0.58	0.011	0.035	0.21	0.31	0.127	0.094	0.002	.	0.003	0.033	0.0015	0.010	0.047
1	IMZ 204	0.085	0.36	0.014	0.008	0.40	0.075	0.034	0.111	4.21	.	(0.007)	(0.0052)	(0.0015)	.	.
1	SRM 1226	0.085	0.274	0.0022	0.0044	0.231	0.125	5.42	0.467	0.054	.	0.029	0.446	.	(0.003)	0.0018
1	NCS HS20747	0.083	0.967	0.02	0.015	0.472	.	.	.	.	.	.	.	.	.	.
1	DSZU C050	0.082	1.21	0.040	0.065	0.287	0.304	0.118	0.075	(0.008)	.	.	0.48	.	(0.004)	0.007
1	IMZ 72	0.081	0.31	0.092	0.012	0.34	0.27	0.039	0.52	0.013	.	.	0.006	.	.	(0.002)
1	NCS HS20745	0.068	0.813	0.1	0.024	0.33	0.297	.	.	.	.	.	.	.	.	0.022
1	VS UG117	0.064	1.41	0.012	0.021	0.60	0.214	0.072	0.129	0.018	.	.	(0.005)	0.0085	.	.
1	SRM 1271	0.064	0.73	0.005	0.0013	0.334	1.48	3.34	0.552	0.020	.	.	0.543	.	.	0.003
1	SRM C1285	0.058	0.332	0.072	0.020	0.36	0.37	1.17	0.80	.	.	0.036	0.164	.	0.035	0.150
1	SRM 1767	0.052	0.022	0.0031	0.0090	0.026	0.0014	0.002	0.0015	0.004	.	0.0050	0.020	0.0008	0.006	0.033
2	CZ CM-7A	0.05	1.17	0.011	0.016	0.56	0.09	0.05	0.10	0.13	.	0.007	0.015	0.01	0.008	0.012
1	CKD 183E	0.049	1.76	0.009	0.013	1.03	0.575	1.10	0.205	0.149	.	0.119	0.036	0.0040	0.053	(0.004)
1	SS 421	(0.049)	(0.11)	(0.012)	(0.027)	(0.07)	.	.	.	.	.	.	(0.028)	.	.	(<0.02)
1	12X 15252Q	0.0478	0.818	0.0213	0.0580	0.265	0.154	2.03	0.887	0.074	.	0.154	0.248	.	0.0448	0.330
1	VS UG82	0.046	1.83	(0.003)	(0.004)	0.334	0.056	0.201	0.59	.	.	.	0.93	.	.	0.56
1	VS UG97	0.041	0.59	0.0036	0.0025	0.194	0.0040	0.0048	0.0080	0.51	.	.	0.019	.	.	(0.001)
1	12X LA6C	0.018	0.0957	0.0051	0.0103	0.088	0.0240	0.0549	0.1592	0.152	.	0.0045	0.0151	0.0059	.	0.0061
1	SRM 1766	0.015	0.067	0.002	0.0024	0.010	0.015	0.021	0.024	0.012	.	0.0020	0.0035	0.0033	0.0010	0.009
1	KUT B20	0.008	0.09	0.012	0.013	0.005	0.034	0.038	0.03	(0.01)	.	(<0.01)	(<0.01)	.	(0.003)	(<0.005)
2	RM Fe 1/4	0.008	0.068	0.006	0.005	0.016	0.015	0.022	0.027	<0.002	.	0.0029	0.0016	0.0027	<0.002	<0.0005
1	SRM 1765	0.006	0.144	0.0052	0.0038	(0.004)	0.0013	0.154	0.051	(0.006)	.	0.0012	0.005	0.0010	0.002	0.0040
1	NCS HS15749	0.0045	0.247	0.010	0.0054	1.54	.	.	.	0.050	0.048	.	.	.	.	.
1	DSZU C01	0.004	0.049	0.002	0.002	0.014	0.008	0.530	0.040	0.004	.	0.217	0.124	.	(0.0008)	(0.003)
2	IARM 168A	0.003	0.12	0.030	0.064	0.46	0.009	2.32	0.004	0.19	.	0.003	0.69	0.0002	0.003	0.004
1	CKD 180B	(0.003)	0.047	0.004	0.0038	0.001	0.006	0.018	0.013	(0.001)	.	0.003	0.001	(0.0028)	0.0011	0.000
1	ECRM 064-2D	0.0026	0.1641	.	.	0.0065	0.0077	0.0115	.	.	.	0.0027	0.00077	0.0026	0.00051	0.00015

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Als	Co	Mo	N	Sn	V
	<b>Number</b>	<b>As</b>	<b>B</b>	<b>Ca</b>	<b>Ce</b>	<b>Fe</b>	<b>Nb</b>	<b>O</b>	<b>Pb</b>	<b>Sb</b>	<b>Ti</b>	<b>W</b>	<b>Zr</b>	<b>Units</b>		
	IMZ 76	.	(0.001)	.	.	.	0.068	.	.	.	(0.003)	.	.	.	.	40 mm Ø x 40 mm
	VS UG86	.	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 25 mm
	BS 1982	0.007	.	.	.	.	(0.003)	0.0017	(0.0003)	0.002	(0.001)	.	25(pre-17025)	.	.	39 mm Ø x ~7 or 19+mm
	12X 15256Q	.	.	.	.	.	0.0509	.	.	.	.	0.101	.	.	.	40 mm Ø x ~15 mm
	12X 93106A	0.0050	.	.	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x ~15 mm
	BS 47B	0.004	.	.	.	.	.	(0.004)	.	.	.	.	.	.	.	38 mm Ø x ~7 or 19+mm
	DSZU C042	0.0073	0.00023	0.0010	.	.	0.0025	.	.	.	0.0018	(0.006)	.	.	.	40 mm Ø x 25 mm
	CKD 187D	(0.007)	0.0006	.	Ta: 0.016	.	0.028	last	(0.003)	0.022	0.096	0.67	0.012	0.012	0.012	44 mm Ø x 13 or 25 mm
	CKD 187C	(0.007)	0.0006	.	Ta: 0.016	.	0.028	last	(0.003)	0.023	0.110	0.67	0.011	0.011	0.011	44 mm Ø x 13 or 25 mm
	VS UG115	.	.	.	.	.	.	.	.	.	0.0014	.	.	.	.	45 mm Ø x ~25 mm
	IMZ 71	.	(0.002)	.	.	.	(0.005)	.	.	.	(0.002)	.	(0.002)	.	.	40 mm Ø x 40 mm
	SRM 1138a	.	.	.	.	.	.	.	.	.	.	.	.	.	.	32 mm Ø x 13 mm
	BS 9905	0.007	(0.0004)	(0.0001)	25(pre-17025)	0.076	0.0021	(0.0002)	(0.002)	(0.002)	(0.002)	0.003	.	.	.	38 mm Ø x ~7 mm last
	VS UG6710	.	.	.	.	.	.	.	.	.	0.128	0.41	.	.	.	45 mm Ø x ~28 mm
	12X 12748U	0.129	.	.	.	.	.	.	.	.	0.105	0.0464	.	.	.	40 mm Ø x ~15 mm
	IPT 500	0.0020	.	.	.	.	0.008	.	.	.	0.0014	.	.	.	.	34 mm Ø x 18 mm
	12X LA1B	0.0212	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x ~15 mm
	KUT A13	0.070	(0.002)	.	.	.	.	.	.	0.024	0.11	.	.	.	.	30-35mm Ø x 39 mm

## RM LOW ALLOY STEEL XRF SET

Part Number: BS LAS-24 Set of 24 samples, each 35 - 45 mm Ø x 7 mm discs 17025

Alloy	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	As	Ca	Co	N	Sn	V
300M	BS 4340M	0.414	0.74	0.004	<0.001	1.65	0.134	1.78	0.78	0.35	0.076	0.007	.	0.013	0.0020	0.009	0.056
1345	BS XCCV	0.44	1.75	0.012	0.024	0.28	0.015	0.019	0.041	0.007	0.033	0.0023	.	0.006	0.0056	(0.0004)	(<0.003)
3115	BS XCCT	0.158	0.52	0.005	0.011	0.28	0.027	1.27	0.65	0.020	0.006	0.004	.	0.017	0.0076	(0.002)	0.031
4130	BS 3932	0.321	0.54	0.016	0.018	0.33	0.200	0.19	1.00	0.229	0.020	0.004	0.0043	0.011	0.0070	0.012	0.005
4140	BS 1962	0.41	0.94	0.007	0.011	0.242	0.224	0.16	1.05	0.229	0.018	0.007	.	0.008	0.0095	0.010	0.004
4150 + S	BS 42	0.516	1.24	0.021	0.073	0.235	0.252	0.183	0.67	0.190	0.020	(0.004)	.	0.012	0.0080	0.012	0.003
4330	BS 4330V	0.318	0.91	0.008	0.0009	0.240	0.181	1.91	0.91	0.475	0.021	.	0.0010	0.011	0.0076	0.010	0.094
4340	BS 60E	0.408	0.70	0.012	0.024	0.26	0.153	1.73	0.86	0.249	0.024	0.007	0.0010	0.009	0.0087	0.009	0.004
4615	BS 51E	0.15	0.59	0.010	0.021	0.28	0.22	1.75	0.14	0.21	0.028	.	.	0.035	0.0086	0.010	(0.0011)
4620	BS 4620	0.189	0.57	0.006	0.018	0.25	0.216	1.75	0.072	0.24	0.032	(0.0084)	(0.0001)	0.012	0.0078	0.013	(0.0008)
4820	BS 4820	0.188	0.57	0.010	0.025	0.25	0.11	3.29	0.12	0.21	0.020	0.005	0.0046	0.008	0.0079	(0.008)	(0.002)
6150	BS 43A	0.491	0.811	0.008	0.026	0.252	0.184	0.242	0.93	0.059	0.003	.	.	0.008	0.0074	0.011	0.148
8620	BS 1931	0.194	0.84	0.007	0.018	0.235	0.116	0.42	0.50	0.168	0.021	0.007	(0.0008)	0.012	0.0079	0.007	0.002
8822	BS 8822	0.228	0.92	0.011	0.025	0.26	0.17	0.47	0.52	0.34	0.022	0.007	(0.0004)	0.019	0.0085	0.011	0.003
8740	BS 67B	0.40	0.94	0.007	0.020	0.23	0.19	0.53	0.51	0.22	0.024	.	.	0.011	0.0078	0.009	(0.002)
9310	BS 58D	0.127	0.45	0.010	0.005	0.32	0.156	3.02	1.35	0.14	0.042	.	.	0.009	0.0147	0.012	0.005
9325	BS 9325	0.25	0.91	0.008	0.007	0.32	0.13	3.29	1.48	0.31	0.030	(0.004)	0.0049	0.010	0.0089	0.009	0.004
P-20	BS 55E	0.307	0.72	0.014	0.024	0.60	0.032	0.053	1.66	0.40	(0.004)	.	.	(0.005)	0.0096	0.002	0.019
AMS 6418	BS 69B	0.2258	1.28	0.008	0.013	1.27	0.086	1.71	0.28	0.39	0.024	.	.	0.035	0.0057	0.006	(0.002)
A193	BS 4942	0.414	0.56	0.015	0.021	0.22	0.165	0.16	0.97	0.54	(0.004)	0.005	0.0006	0.010	0.0080	0.014	0.28
A485-1	BS A485-1	0.98	1.10	0.019	0.004	0.62	0.16	0.13	1.07	0.029	0.017	0.006	.	0.010	0.0060	0.011	0.003
E52100	BS 53E	1.08	0.37	0.007	0.012	0.24	0.11	0.26	1.45	0.10	0.003	.	.	0.011	0.0086	0.005	0.004
Nitriding	BS 68C	0.38	0.60	0.018	0.008	0.305	0.178	0.166	1.77	0.36	1.06	(0.004)	(0.0002)	0.011	0.0045	0.008	0.007
LF 3	BS LF 3	0.183	0.52	0.006	0.018	0.206	0.080	3.36	0.098	0.056	0.017	0.006	(0.0001)	0.056	0.0054	0.006	(0.002)

Alloy	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	As	Ca	Co	N	Sn	V
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## RM TOOL STEEL XRF SET

Part Number: BS TS-18 AVAILABLE INDIVIDUALLY 17025 ~7 mm discs

Grade	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	W	V	Co	N
A-2	BS 36C	0.96	0.46	0.023	0.027	0.31	0.18	0.19	5.01	0.99	.	(0.04)	0.11	0.03	.
A-10	BS A-10	1.41	1.75	0.016	0.022	1.15	0.16	1.82	0.24	1.53	0.006	<0.005	(0.004)	(0.010)	.
D-2	BS 37D	1.54	0.28	0.021	0.015	0.29	0.063	0.21	11.07	1.09	.	0.16	0.80	0.07	0.016
H-10	BS 49	0.36	0.33	0.014	0.015	0.92	0.072	0.20	3.51	2.41	0.004	0.31	0.62	2.00	0.0186
H-11	BS TH11	0.423	0.31	0.016	0.005	0.88	0.041	0.11	5.04	1.27	.	(0.01)	0.46	(0.008)	.
H-12	BS TH12	0.372	0.40	0.020	0.005	0.92	0.064	0.16	5.02	1.41	.	1.06	0.62	0.07	.
H-13	BS 34D	0.395	0.38	0.017	0.005	1.06	0.049	0.10	5.15	1.24	.	0.10	0.94	0.031	.
L-6	BS 39B	0.67	0.62	0.009	0.019	0.214	0.163	1.45	0.79	0.17	(0.011)	.	(0.01)	(0.02)	.
M-1	BS TM1	0.86	0.23	0.007	0.012	0.46	0.054	0.057	3.72	8.4	.	1.7	1.05	0.45	.
M-2	BS 32C	0.84	0.29	(0.018)	0.0010	0.29	0.13	0.35	3.98	4.85	(0.02)	6.3	2.03	0.31	.
O-1	BS 35D	0.879	1.13	0.021	0.024	0.22	0.141	0.132	0.495	0.035	(0.005)	0.46	0.181	0.012	.
O-6	BS 41	1.41	0.89	0.013	0.011	1.02	0.038	0.15	0.22	0.23	(0.007)	0.035	0.046	.	.
S-1	BS 33E	0.49	0.29	0.022	0.005	0.20	0.038	0.08	1.25	0.045	.	2.75	0.19	0.006	.
S-5	BS 38C	0.60	0.81	0.011	0.012	2.08	0.26	0.24	0.28	0.41	0.015	0.004	0.214	0.036	0.0081
S-7	BS TS7	0.529	0.70	0.016	0.010	0.27	0.05	0.10	3.18	1.34	.	0.19	0.35	0.043	.
T-1	BS 30D	0.745	0.348	0.029	0.0010	0.301	0.116	0.191	3.93	0.342	0.0123	17.73	1.077	0.101	0.0168
	BS 10V	2.46	0.52	0.019	0.079	0.89	0.076	0.08	5.41	1.30	<0.002	0.013	9.50	0.009	0.064
HP9-4-30	BS 9-4-30	0.30	0.22	0.008	<0.001	0.06	0.09	7.25	1.00	1.00	0.004	0.01	0.085	4.40	0.0015

Grade	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	W	V	Co	N
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## TOOL STEEL

## CONTINUED ON THE NEXT PAGE

# = Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Co	Mo	N	Ti	V	W	Al
1	BS PM15	3.54	0.416	0.0198	0.0127	0.912	0.142	0.203	5.33	0.0330	1.22	0.111	0.0029	14.79	0.109	0.0025
2	BS 107	2.46	0.52	0.019	0.079	0.95	0.075	0.170	5.41	0.009	1.20	0.064	.	9.50	0.013	(<0.002)
1	DSZU C070	2.43	0.38	0.021	0.054	0.79	0.130	0.153	5.37	0.053	1.28	.	.	9.39	0.29	.
1	BS A-11	2.42	0.507	0.023	0.123	0.98	0.092	0.25	5.21	0.044	1.25	0.110	0.0019	9.24	(0.080)	0.0054
1	DSZU C082	2.32	0.33	0.029	0.014	0.36	0.118	0.239	12.24	0.035	1.11	.	.	4.02	0.17	.
1	ECRM 288-1D	2.08	0.292	0.024	(0.0012)	0.260	0.060	0.298	12.00	0.018	0.103	0.0151	.	0.055	(0.68)	0.012
1	DSZU C080	1.68	0.31	0.025	0.020	1.89	0.120	0.162	5.06	0.028	0.39	.	.	5.12	3.40	.
1	BS 37G	1.663	0.326	0.021	0.0007	0.352	0.044	0.152	11.77	0.0166	0.78	0.0310	0.0025	0.70	0.034	0.0060
1	BS TS15	1.6	0.25	0.021	0.058	0.35	0.06	0.23	3.8	4.7	0.47	0.044	0.002	4.9	11.4	0.003
1	ECRM 274-1D	1.563	0.397	0.0148	0.0096	1.057	0.0281	0.077	8.036	(0.0230)	1.4551	0.0769	(0.0011)	4.010	0.0087	(0.0025T)
2	CT D2	1.53	0.48	0.013	0.005	0.40	0.04	0.10	11.46	0.02	0.75	.	.	0.89	<0.01	.
2	BS 41A	1.50	0.93	0.004	0.001	0.97	0.034	0.17	0.20	0.006	0.19	0.0077	0.004	(0.003)	(<0.003)	0.010
1	IARM 45B	1.42	0.90	0.010	0.008	0.92	0.018	0.024	0.061	0.004	0.24	0.0080	0.002	(0.003)	(0.004)	0.010
2	BS 41	1.41	0.89	0.013	0.011	1.02	0.038	0.15	0.22	.	0.23	.	.	0.046	0.035	(0.007)
2	BS A-10	1.41	1.75	0.016	0.022	1.15	0.016	1.82	0.24	(0.010)	1.53	.	.	(0.004)	<0.005	0.006
1	IARM 251A	1.398	0.33	0.014	0.058	0.58	0.13	0.131	4.1	0.129	5.16	0.044	0.003	3.9	5.5	0.01
2	IARM 45A	1.39	0.88	0.014	0.012	1.02	0.049	0.11	0.13	0.004	0.25	0.0079	0.003	0.005	.	0.011
1	DSZU C073	1.32	0.23	0.019	0.013	0.27	0.112	0.198	3.97	8.31	4.97	.	.	2.82	6.40	.
2	CT X27081	1.32	0.20	0.004	0.001	0.24	0.026	0.031	0.052	.	0.008	.	.	.	3.39	.
1	DSZU C072	1.30	0.29	0.024	0.019	0.55	0.106	0.192	4.25	0.011	5.39	.	.	3.59	6.33	.
3	CZ HS-2A	1.24	0.27	0.024	0.017	0.24	0.08	0.21	4.15	9.9	3.75	.	0.003	3.4	9.3	0.035
1	DSZU C077	1.16	0.19	0.030	0.024	0.40	0.142	0.271	4.07	7.73	3.05	.	.	2.04	12.17	.
1	DSZU C075	1.16	0.16	0.021	0.015	0.47	0.120	0.202	3.10	8.03	4.06	.	.	2.10	9.27	.
1	BS M-47	1.14	0.20	0.020	0.002	0.464	0.080	0.17	3.72	4.99	9.24	0.0219	(0.004)	1.23	1.36	(0.002)
1	IMZ 102/3	1.11	0.15	0.014	(0.0045)	1.06	0.13	0.021	1.59	.	0.43	.	.	(0.012)	.	0.017
1	DSZU C074	1.10	0.16	0.023	0.020	0.16	0.141	0.158	3.93	5.08	5.21	.	.	1.94	6.47	.
1	DSZU C071	1.06	0.20	0.020	0.028	0.38	0.162	0.149	3.77	8.10	9.67	.	.	1.07	1.74	.
1	SS 487/1	1.02	0.26	0.022	0.029	0.18	.	(0.14)	3.91	7.95	9.41	.	.	1.14	1.80	0.006
1	DSZU C081	1.01	0.32	0.017	0.011	1.10	0.124	0.207	7.78	0.029	2.13	.	.	0.25	0.05	.
2	CT M7	1.00	0.29	0.012	0.003	0.34	0.066	0.10	3.60	0.015	8.49	.	.	2.02	1.78	.
1	JK 49D	(1)	(0.4)	(0.02)	(0.01)	(0.5)	(0.1)	(0.2)	(5)	(0.3)	(3)	1.89	.	(9)	(4)	.
1	IARM 39B	0.99	0.54	0.017	0.003	0.35	0.10	0.14	4.79	0.014	1.01	0.0096	0.003	0.22	(0.026)	0.006
1	IARM 39C	0.99	0.45	0.019	0.007	0.28	0.077	0.144	4.99	0.013	0.97	0.011	0.0029	0.21	0.011	0.017
2	BS 36D	0.97	0.68	0.021	0.007	0.27	0.060	0.089	5.25	0.010	0.96	0.0108	.	0.29	0.028	0.010
2	CT A2	0.95	0.72	0.010	0.004	0.40	0.06	0.10	5.13	.	1.05	.	.	0.22	.	.
1	SS 485/1	0.94	0.41	0.043	0.039	0.30	.	(0.14)	4.02	4.97	0.66	.	.	1.02	17.8	(0.006)
1	IARM 320A *	0.94	0.32	0.021	(0.002)	0.36	0.089	0.20	4.20	4.90	4.8	0.014	(0.003)	1.78	6.0	0.024
2	CT O1	0.91	1.27	0.009	0.004	0.36	0.05	0.06	4.07	0.06	0.97	.	.	0.25	0.51	.
1	ECRM 290-1D	0.91	0.24	0.016	0.016	0.08	0.081	0.33	4.18	5.12	4.81	0.0325	.	1.25	6.24	.
2	CT M10	0.88	0.27	0.016	0.004	0.30	0.061	0.14	3.97	0.012	7.89	.	.	1.99	0.008	.
2	BS 35D	0.879	1.13	0.021	0.024	0.22	0.141	0.132	0.495	0.012	0.035	.	(0.003)	0.181	0.46	(0.005)
1	IARM 304A	0.857	0.260	0.019	0.0016	0.36	0.14	0.133	3.55	0.278	8.04	0.034	0.002	1.23	1.65	0.009
2	BS 32D	0.85	0.30	0.027	0.0222	0.25	0.039	0.053	4.14	0.010	4.92	0.018	.	1.82	6.15	0.018
1	IARM 306B	0.84	0.24	0.006	(0.001)	0.21	0.058	0.095	4.12	0.010	4.2	0.0049	(0.002)	0.98	(0.01)	0.08
1	SRM 1157	0.836	0.34	0.011	0.004	0.18	0.088	0.228	4.36	0.028	4.86	.	.	1.82	6.28	.
1	BS M-50	0.834	0.244	0.0066	0.0009	(0.205)	0.064	0.074	4.28	0.0151	4.29	0.0057	(0.0018)	0.99	0.0052	0.073
2	14X I4948C	0.83	0.65	0.011	0.017	0.26	0.04	0.29	4.04	0.16	0.14	.	.	0.65	18.8	.
2	CT M2	0.82	0.33	0.012	0.004	0.27	0.06	0.25	4.03	0.05	4.96	.	.	1.81	6.47	.
1	IARM 44C	0.82	0.301	0.027	0.004	0.31	0.12	0.132	4.04	0.247	5.02	0.033	0.004	1.91	6.0	0.05
2	14X 14890K	0.81	0.58	(0.012)	0.028	0.69	0.09	0.08	3.60	0.32	5.59	.	.	1.99	5.30	.
2	CT M1	0.80	0.30	0.012	0.005	0.22	0.087	0.12	3.91	.	8.22	.	.	1.05	1.58	.
1	IARM 48C	0.77	0.39	0.029	0.018	0.45	0.13	0.104	4.24	0.22	0.17	0.0165	(0.006)	1.27	17.5	0.017
1	BS 30D	0.745	0.348	0.029	0.0010	0.301	0.116	0.191	3.93	0.101	3.42	0.0168	0.0189	1.777	17.73	0.0123
1	SS 486/1	0.74	0.21	0.029	0.021	0.27	(0.06)	0.44	4.54	0.08	5.20	.	.	1.82	5.80	(0.005)
1	IARM 40C	0.72	1.91	0.014	0.012	0.32	0.142	0.255	0.99	0.010	1.27	0.0083	0.008	0.010	0.009	0.019
1	14X HS1C	0.72	0.29	0.018	0.020	0.23	0.07	0.28	4.00	0.25	0.36	0.023	.	1.04	17.2	.
3	CZ HS-1A	0.72	0.28	0.023	0.011	0.28	0.08	0.14	4.15	4.7	0.06	.	0.003	1.33	17.5	0.03
1	IARM 43B	0.711	0.56	0.008	0.013	0.251	0.180	1.39	0.651	0.012	0.206	0.0093	0.0047	0.0035	<0.005	0.021
2	BS 40B	0.71	2.28	0.020	0.006	0.35	0.076	0.089	1.18	0.020	1.07	0.0076	0.002	0.10	0.11	0.002
3	CZ CM-10A	0.694	1.00	0.040	0.022	0.817	0.31	2.38	5.48	0.114	1.234	.	0.0189	0.908	0.96	0.086
#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Co	Mo	N	Ti	V	W	Al
1	DSZU C076	0.69	0.18	0.024	0.022	0.58	0.120	0.213	5.75	13.88	4.29	.	.	2.03	9.81	.
1	SS 481/1	0.68	0.25	0.023	0.022	0.15	.	(0.09)	3.40	0.31	0.28	.	.	0.56	14.0	.
1	IARM 40B	0.68	1.98	0.012	0.003	0.39	0.050	0.096	1.04	0.015	1.22	0.0107	0.003	0.014	0.013	(0.006)
2	BS 39B	0.67	0.62	0.009	0.019	0.214	0.163	1.45	0.79	(0.02)	0.17	.	.	(0.01)	.	(0.011)
1	SS 482/1	0.67	0.26	0.027	0.027	0.14	.	(0.16)	3.95	0.29	0.40	.	.	1.04	17.8	.
1	DSZU C078	0.67	0.22	0.022	0.019	0.117	0.116	0.121	3.98	0.022	0.14	.	.	1.04	18.30	.
1	SS 483/1	0.65	0.22	0.023	0.023	0.16	.	(0.08)	2.90	2.06	0.18	.	.	0.22	9.28	.
2	BS 38C	0.60	0.81	0.011	0.012	2.08	0.26	0.24	0.28	0.036	0.41	0.0081	0.007	0.214	0.004	0.015
1	ECRM 179-2D	0.598	0.539	0.027	(0.0006)	0.578	0.111	0.078								

## TOOL STEEL

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Number	Als	As	B	Ca	Nb	O	Pb	Sb	Sn	Ta	Zr	Units
<b>BS PM15</b>	.	0.0040	(0.0002)	(0.0001)	0.014	0.0129	(0.00001)	(0.0010)	0.0034	(0.0003)	(0.0005)	38 mm Ø x 19+ mm
BS 10V	.	.	.	.	.	.	.	.	.	.	.	41 mm Ø x ~7, ~12, or 19 mm last
DSZU C070	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
<b>BS A-11</b> Fe:79.5	0.0057	0.0008	(0.0002)	(0.0070)	0.028	(0.00006)	(0.001)	0.0055	.	(0.001)	.	38 mm Ø x ~7 or 19+ mm
DSZU C082	.	.	.	.	.	.	.	.	.	.	.	~35 mm Ø x 25 mm
ECRM 288-1D	.	(0.0065)	.	.	.	.	.	.	.	.	.	36-41 mm Ø x 28-35 mm
DSZU C080	.	.	.	.	.	.	.	.	.	.	.	~35 mm Ø x 25 mm
BS 37G	.	0.0026	0.0003	0.0014	0.0026	0.015	0.0005	0.0009	0.0010	.	.	34 mm Ø x ~7 or 19+ mm
BS 7S15 *	.	<0.05	0.0002	<0.005	0.008	.	* Provisional Analysis	0.007	.	.	0.006	38 mm Ø x ~7 or 19+ mm
ECRM 274-1D	.	(0.0013)	(0.0005)	.	.	(0.0026)	(0.00064)	(0.0002)	(0.0010)	.	.	38 mm Ø x 25 mm
CT D2	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
<b>BS 41A</b>	.	0.002	.	0.0006	.	0.002	.	.	0.002	.	.	38 mm Ø x ~7 or 19+ mm
IARM 45B	.	(0.002)	(0.0001)	(0.001)	(0.002)	(0.0005)	(0.001)	0.008	.	.	(0.001)	31 mm Ø x 2 or 18 mm
<b>BS 41</b>	.	.	.	.	.	.	.	.	.	.	.	42 mm Ø x 19+ mm
BS A-10	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x ~7 or 19+ mm
IARM 251A	.	0.016	(0.002)	(0.0005)	0.016	(0.01)	(0.002)	.	0.011	.	(0.002)	31 mm Ø x 2 or 18 mm
IARM 45A	.	(0.003)	(0.0001)	.	0.002	(0.0017)	(<0.005)	.	0.005	.	.	31 mm Ø x 2 or 18 mm
DSZU C073	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x 25 mm
CT X27081	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm last
DSZU C072	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
CZ HS-2A	.	.	.	.	.	.	.	.	0.01	.	.	~39 mm Ø x 25 mm
DSZU C077	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
DSZU C075	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
<b>BS M-47</b>	.	0.006	(0.002)	(0.004)	0.0037	.	.	.	0.006	.	.	38 mm Ø x ~7 or 19+ mm
IMZ 102/3	.	(0.0007)	.	.	.	.	.	.	.	(0.007)	.	40 mm Ø x 40 mm
DSZU C074	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
DSZU C071	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
SS 487/1	.	(0.012)	.	.	.	.	.	.	(0.006)	.	.	38 mm Ø x 19 mm
DSZU C081	.	.	.	.	.	.	.	.	.	.	.	~35 mm Ø x 25 mm
CT M7	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
JK 49D	.	.	.	.	.	.	.	.	.	.	.	47 mm Ø x 15 mm
IARM 39B	.	.	.	.	0.006	.	.	.	0.004	.	.	31 mm Ø x 2 or 18 mm
IARM 39C	.	(0.005)	0.001	(0.001)	0.0040	0.001	(0.0001)	(0.002)	0.005	.	(0.002)	31 mm Ø x 2 or 18 mm
BS 36D	.	0.002	.	.	.	.	.	.	0.016	.	.	38 mm Ø x ~7 or 19+ mm
CT A2	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
SS 485/1	.	(0.022)	.	.	.	.	.	.	0.019	.	.	38 mm Ø x 19 mm
IARM 320A *	.	(0.010)	(0.0011)	.	(0.012)	(0.002)	* Provisional Analysis	0.008	.	(0.003)	.	31 mm Ø x 2 or 18 mm
CT O1	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
ECRM 290-1D	.	.	.	.	.	.	.	.	.	.	.	36-41 mm Ø x 28-35 mm
CT M10	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
<b>BS 35D</b>	.	.	.	.	(0.001)	.	.	.	0.006	.	.	38 mm Ø x ~7 or 19+ mm
IARM 304A	.	(0.01)	0.002	(0.002)	0.021	0.002	.	(0.001)	0.006	(0.002)	(0.002)	31 mm Ø x 2 or 18 mm
BS 32D	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x ~7 or 19+ mm
IARM 306B	.	(0.003)	(0.001)	.	0.007	(0.001)	(0.001)	0.0025	0.004	.	(0.002)	31 mm Ø x 2 or 18 mm
SRM 1157	.	.	.	.	.	.	.	.	.	.	.	32 mm Ø x 19 mm
<b>BS M-50</b>	.	0.0035	(0.0001)	(0.001)	0.0008	0.0010	(0.0001)	(0.0006)	0.0045	Fe:88.8	(0.0006)	38 mm Ø x ~7 or 19+ mm
14X 14948C	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm last of stock
CT M2	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
IARM 44C	.	(0.01)	(0.002)	.	0.012	(0.003)	(0.002)	(0.004)	0.010	(0.004)	.	31 mm Ø x 2 or 18 mm
14X 14890K	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm last of stock
CT M1	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
IARM 48C	.	0.012	(0.001)	.	(0.005)	(0.003)	(0.0004)	(0.002)	0.012	(0.01)	(0.003)	31 mm Ø x 2 or 18 mm
<b>BS 30D</b>	.	0.0128	(0.0002)	0.0004	0.0071	0.0019	(0.0002)	0.0032	0.0246	(0.02)	(0.0001)	38 mm Ø x ~7 or 19+ mm
SS 486/1	.	(0.016)	.	.	.	.	.	.	0.014	.	.	38 mm Ø x 19 mm
IARM 40C	.	0.008	0.0009	(0.001)	0.003	0.0013	.	.	0.008	.	(0.002)	31 mm Ø x 2 or 18 mm
14X HS1C	.	.	.	.	.	.	.	.	(0.035)	.	.	40 mm Ø x 15 mm
CZ HS-1A	.	.	.	.	.	.	.	.	0.02	.	.	~39 mm Ø x 25 mm
IARM 43B	.	0.005	0.0002	.	0.004	0.0016	<0.0005	.	0.013	.	.	31 mm Ø x 2 or 18 mm
BS 40B	.	0.004	0.0006	.	.	.	.	.	0.005	.	.	41 mm Ø x ~7 or 19+ mm
CZ CM-10A	.	0.03	0.05	.	.	.	.	.	0.062	.	.	~39 mm Ø x 25 mm
Number	Als	As	B	Ca	Nb	O	Pb	Sb	Sn	Ta	Zr	Units
DSZU C076	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
SS 481/1	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm last of stock
IARM 40B	.	.	(0.0010)	.	0.005	(0.0014)	.	.	0.004	.	.	31 mm Ø x 2 or 18 mm
<b>BS 39B</b>	.	.	.	.	.	.	.	.	(0.011)	.	.	41 mm Ø x ~7 or 19+ mm
SS 482/1	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
DSZU C078	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
SS 483/1	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
BS 38C	.	0.011	.	.	(0.002)	.	0.022	.	0.022	.	.	38 mm Ø x ~7 or 19+ mm
ECRM 179-2D	.	.	.	.	.	.	.	.	.	.	.	30 to 35 mm Ø x 20 mm
IARM 47B	.	(<0.001)	.	(0.002)	(0.0014)	(0.0003)	.	.	0.008	.	.	31 mm Ø x 2 or 18 mm
DSZU C079	.	.	.	.	.	.	.	.	.	.	.	~35 mm Ø x 25 mm
BS 33D	.	.	.	.	.	.	.	.	0.005	.	.	41 mm Ø x 12 mm
BS 33E	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 12 mm
CT X67975	.	.	.	.	.	.	<0.001	.	0.003	.	.	30-35 mm Ø x 20-25 mm
IARM 259A	.	0.006	0.0003	.	0.003	0.0014	<0.0005	.	0.004	.	0.001	31 mm Ø x 2 or 18 mm
<b>BS D-6</b>	.	0.011	(0.0003)	0.0011	(0.002)	(0.0008)	(0.0003)	0.0012	0.0104	Mg: 0.0002	.	38 mm Ø x ~7 or 19 mm
IMZ 57/1	.	(0.01)	0.0003	.	0.003	0.002	<0.002	.	0.016	.	.	40 mm Ø x 40 mm
IARM 46B	.	.	.	.	.	.	.	.	.	.	.	31 mm Ø x 2 or 18 mm
IMZ 53/1	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
IMZ 56/1	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
<b>BS H-19</b>	.	0.0056	.	.	0.008	0.0071	.	.	0.0056	.	.	38 mm Ø x ~7 or 19+ mm
IARM 255A	.	(0.002)	0.0004	(0.0004)	0.004	0.0011	<0.001	.	0.006	.	<0.005	31 mm Ø x 2 or 18 mm
<b>BS H-13</b>	.	0.0066	(0.0002)	(0.0003)	(0.0004)	0.0018	(0.0003)	0.0020	0.0093	(0.003)	(0.0014)	38 mm Ø x ~7 or 19+ mm
IMZ 58/1	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
IMZ 51/1	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
ECRM 276-2D	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 25 or 30 mm
CT H13	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
ECRM 271-1D	.	0.0057	.	0.0009	.	0.0020	.	.	0.0084	.	.	35 mm Ø x 25 mm
BS 49	.	.	.	.	.	.	.	.	(0.004)	.	.	49 mm Ø x ~7 or 19+ mm
BS 9-4-30	.	.	.	.	.	.	.	.	.	.	.	35 mm Ø x ~7 or 19+ mm
IARM 341A	.	(0.003)	0.0005	0.0011	(0.005)	0.0008	(0.001)	(0.001)	(0.005)	.	(0.003)	31 mm Ø x 2 or 18 mm
IMZ 196	.	.	0.065	.	0.073	.	.	.	.	.	.	37 mm Ø x 30 mm
IMZ 170	.	.	.	.	0.087	.	.	(0.002)	0.007	.	.	40 mm Ø x 40 mm
CZ CM-17A	0.0105	0.0060	.	.	.	.	0.0177	.	0.0109	.	.	~37 mm Ø x ~25 mm
VS LG43/1	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
IMZ 197	.	.	(0.007)	.	(0.011)	.	.	.	0.015	.	.	37 mm Ø x 30 mm
NCS HS20741	.	.	.	.	.	.	.	.	.	.	.	35 mm Ø x 40 mm
VS LG42/1	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
VS LG37/1	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
IMZ 179	.	(0.007)	.	.	(0.004)	.	.	.	0.010	.	.	40 mm Ø x 40 mm
IMZ 157	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
NCS HS20742	.	.	.	.	.	.	.	.	.	.	.	35 mm Ø x 40 mm
IMZ 177	.	.	.	.	.	.	.	.	0.008	.	.	40 mm Ø x 40 mm
13X 14713A *	.	* Provisional Analysis	.	.	.	.	.	.	0.003	.	.	~40 mm Ø x ~15 mm
SS 422	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
IMZ 101/2	.	.	(0.0005)	.	.	.	.	.	.	.	(0.002)	40 mm Ø x 40 mm
SS 423	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
SS 424	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
NCS HS20743	0.021	.	.	.	.	.	.	.	.	.	.	35 mm Ø x 40 mm
IARM 180A	.	(0.004)	0.0004	.	(0.005)	0.0006	(0.002)	.	0.002	.	.	31 mm Ø x 2 or 18 mm
IARM 164A	.	(0.002)	(0.0001)	.	0.006	0.0005	(0.004)	.	0.002	.		

## ALUMINUM IN STAINLESS AND HIGH ALLOY STEEL

# = Class, where 1 = CRM and 2 = RM \* Provisional Analysis

#	Number	Al	Ni	Cr	C	Mn	P	S	Si	Cu	Co	Mo	N	Nb	Ti	V
1	ECRM 299-1D	5.33	0.172	22.32	0.0154	0.2678	0.0152	0.00022	0.299	0.0382	0.0187	0.0186	0.0198	.	0.1289	0.0329
1	IMZ 158	1.56	0.24	25.51	0.091	1.34	0.015	0.007	2.23	0.097	.	0.025	.	.	0.12	0.078
1	13X PH17700A	1.172	6.98	16.88	0.0732	0.496	0.0181	0.0008	0.551	0.146	0.0464	0.340	0.0192	0.0201	0.051	0.0390
1	<b>BS 192</b>	1.17	7.11	16.44	0.074	0.835	0.025	0.0005	0.387	0.412	0.104	0.430	0.0290	0.168	0.076	0.124
2	CT X92834	1.14	8.32	12.57	0.035	0.044	0.003	0.003	0.019	0.030	0.030	2.20	.	0.001	0.019	<0.004
1	13X PH13800A	1.075	8.04	12.53	0.0386	0.0332	0.0064	0.0030	0.081	0.0449	0.0220	2.10	0.0041	.	0.0122	0.0188
2	BS 184A	1.00	8.34	12.66	0.035	0.06	0.007	0.001	0.080	0.041	0.036	2.20	0.0045	(0.006)	0.051	0.014
1	<b>BS 192A</b>	0.98	7.01	16.44	0.066	0.768	0.021	<0.002	0.300	0.334	0.114	0.28	0.029	0.208	0.083	0.077
1	IARM 152C *	0.95	7.29	16.99	0.072	0.74	0.024	0.0005	0.263	0.315	0.113	0.36	0.0172	0.012	0.098	0.072

Number	As	B	Ca	O	Sn	Ta	W	Zr	Units
ECRM 299-1D	0.0054	0.0002	.	.	.	.	.	0.1775	40 mm Ø x 25 mm
IMZ 158	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
13X PH17700A	.	0.0033	.	.	0.0055	.	0.009	.	~38 mm Ø x ~15 mm
<b>BS 192</b>	(0.005)	(0.0003)	0.0007	0.0014	0.008	(0.001)	0.05	.	38 mm Ø x ~7 or 19+ mm
CT X92834	.	0.0009	.	.	0.002	.	.	<0.001	30-35 mm Ø x x 20-25 mm
13X PH13800A	.	.	.	.	0.0051	.	.	.	~38 mm Ø x ~15 mm
BS 184A	.	(0.0004)	(0.0003)	(0.0003)	(0.002)	.	0.032	.	38 mm Ø x ~7 or 19+ mm
<b>BS 192A</b>	(0.0035)	(0.0003)	(0.0006)	(0.0006)	0.008	.	0.048	.	38 mm Ø x ~7 or 19+ mm
IARM 152C *	(0.004)	(0.003)	.	(0.001)	0.007	(0.01)	0.026	.	31 mm Ø x 2 or 18 mm

## CRM BORON IN STAINLESS STEEL

35 mm x 45 mm x 16 mm

Number	B	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Mo	Ti	V	W
DSZU C61	2.14	(0.073)	(0.38)	(0.003)	(0.005)	(0.41)	(0.09)	(0.95)	(17.8)	(0.04)	(0.24)	(0.75)	(0.19)	(0.22)
DSZU C60	1.42	(0.058)	(0.50)	(0.002)	(0.006)	(0.35)	(0.01)	(0.51)	(11.9)	(0.11)	(0.37)	(2.70)	(0.41)	(0.20)
DSZU C62	1.15	(0.065)	(0.31)	(0.010)	(0.024)	(0.32)	(0.24)	(0.84)	(14.4)	(0.59)	(0.16)	(3.36)	(0.18)	(0.14)
DSZU C63	1.05	(0.070)	(0.27)	(0.014)	(0.006)	(0.30)	(0.39)	(0.48)	(11.3)	(0.25)	(0.09)	(0.70)	(0.08)	(0.10)

## CALCIUM IN STAINLESS AND HIGH ALLOY STEEL

# = Class, where 1 = CRM and 2 = RM

#	Number	Ca	Ni	Cr	C	Mn	P	S	Si	Cu	Co	Mo	N	Nb	V	W
2	BS CA304-1	0.0045	8.57	18.30	0.045	1.06	0.026	0.016	0.71	0.34	0.20	0.34	0.083	0.026	0.09	0.04
1	ECRM 379-1D	0.0033	30.83	26.79	0.0121	1.804	0.0166	0.0006	0.393	0.984	0.0390	3.290	0.0550	(0.0028)	0.0663	(0.0091)
1	JK 27A D	0.0033	12.04	16.76	0.0477	1.59	0.022	0.0168	0.411	0.197	0.089	2.53	0.0629	(<0.01)	0.0041	.
2	BS 193	0.0020	1.82	18.48	0.104	12.11	0.018	0.002	0.66	0.088	0.028	0.21	0.37	0.014	0.107	(0.007)
2	BS SS4952	0.0019	0.23	13.15	0.347	0.41	0.016	0.003	0.66	0.045	0.030	0.049	0.027	0.004	0.089	(0.007)
2	BS 82E	0.0014	12.49	22.38	0.062	1.61	0.027	0.001	0.58	0.26	0.12	0.31	0.072	0.062	0.064	0.041
1	<b>BS 9942</b>	0.0014	13.55	18.21	0.021	1.84	0.025	0.006	0.49	0.305	0.086	3.30	0.071	0.005	0.072	0.032
1	BS 91F	0.0012	0.40	16.34	0.060	0.762	0.022	0.0071	0.381	0.167	0.0174	0.112	0.0558	0.0120	0.071	0.0120
1	<b>BS 9842</b>	0.0010	20.02	24.19	0.059	1.50	0.025	0.0016	0.99	0.147	0.237	0.111	0.037	0.026	0.075	0.011
1	ECRM 272-1D	0.00090	0.2445	11.927	0.2815	0.600	0.0156	0.0196	0.420	0.0192	0.0145	0.0030	0.0508	0.0028	0.0167	.
2	BS 94C	0.0008	0.43	25.90	0.057	0.45	0.024	0.002	0.62	0.056	0.042	0.20	0.065	0.032	0.12	(0.03)
2	BS 82D	0.0007	14.12	22.40	0.058	1.85	0.020	0.009	0.63	0.16	0.042	0.144	0.070	0.053	0.087	0.028
2	BS 87F	0.0007	10.12	17.30	0.055	1.64	0.024	0.025	0.67	0.28	0.17	0.29	0.037	0.57	0.13	0.050
2	BS SS3951	0.0005	9.18	18.17	0.014	1.56	0.023	0.031	0.61	0.22	0.16	0.303	0.077	0.085	0.067	0.040

Number	Al	As	B	O	Pb	Sb	Sn	Ti	Zn	Units
BS CA304-1	0.003	(0.003)	0.0006	0.0041	.	(0.0020)	0.010	0.028	.	38 mm Ø x ~5 mm last, sides not parallel
ECRM 379-1D	(0.00246)	(0.0018)	0.00190	(0.0027)	(0.000038)	0.00057	0.0021	(0.0014)	.	38 or 45 mm Ø x 25 mm
JK 27A D	0.0169	.	0.0018	.	0.00016	.	0.0039	.	.	38 mm Ø x 25 mm last
BS 193	(0.003)	.	0.0007	(0.004)	.	.	0.004	0.003	.	32 mm Ø x ~7 or 19+ mm
BS SS4952	0.003	0.002	(0.0004)	0.005	.	.	0.004	0.002	.	38 mm Ø x ~7 or 19+ mm
BS 82E	0.006	.	0.0024	.	.	.	0.006	0.003	.	38 mm Ø x ~7 or 19+ mm
<b>BS 9942</b>	0.004	(0.004)	0.0014	(0.0023)	.	.	0.006	(0.002)	.	44 mm Ø x ~7 or 19+ mm
BS 91F	0.0029	.	(0.0002)	(0.0076)	.	(0.0017)	0.0054	0.0018	.	38 mm Ø x ~7 or 19+ mm
<b>BS 9842</b>	0.014	(0.002)	0.0025	(0.0044)	.	.	0.005	0.003	.	38 mm Ø x ~7 or 19+ mm
ECRM 272-1D	0.0046	0.0116	0.0018	.	.	0.0007	.	0.00096	0.0031	38 mm Ø x 25 or 30 mm
BS 94C	0.004	.	(0.0005)	0.0061	.	.	0.006	.	.	44 mm Ø x ~7 or 19+ mm
BS 82D	(0.002)	.	0.0040	0.007	.	.	0.004	0.005	.	38 mm Ø x ~7, 11 or ~15 mm last
BS 87F	0.004	0.005	(0.0006)	0.005	.	.	0.004	0.004	.	41 mm Ø x ~7 or 19+ mm
BS SS3951	0.002	.	(0.0006)	0.0075	.	.	0.007	(0.002)	.	41 mm Ø x ~7 or 19+ mm



## MARAGING STEEL AND COBALT IN STAINLESS AND HIGH ALLOY STEEL

# = Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties

#	Number	Co	Mo	Ni	Cr	C	Mn	P	S	Si	Cu	Al	B	N	Nb	Ti
1	IARM 326A	48.4	(0.002)	0.037	(0.002)	(0.002)	0.003	0.0013	0.0011	0.029	(0.002)	(0.003)	(0.001)	0.0004	0.038	(0.002)
2	CT ISO070A	29.00	0.006	24.47	5.54	0.014	0.015	0.003	<0.001	0.32	0.010	0.47	0.0038	.	4.63	0.82
1	IMZ 521	20.25	4.84	8.63	0.040	0.015	0.039	0.0031	0.0058	0.072	0.027	.	.	0.0113	.	.
1	IMZ 522	18.72	6.45	11.47	0.022	0.0088	0.032	(0.003)	0.0043	0.048	0.019	.	.	0.0045	(0.008)	0.54
1	IMZ 520	17.66	4.92	10.10	0.242	0.011	0.070	0.0043	0.019	0.094	0.080	.	(0.001)	0.0105	(0.008)	(0.007)
1	IARM 98B	17.0	0.010	29.4	0.012	0.007	0.18	0.002	0.0007	0.17	0.028	0.07	0.001	0.0024	0.002	0.03
1	IMZ 523	14.44	6.67	15.94	0.048	0.0098	0.051	(0.004)	0.0039	0.043	0.059	.	.	0.0037	(0.008)	0.70
1	IARM 242A	13.5	1.21	11.1	3.00	0.24	0.018	0.002	0.0004	0.02	0.007	0.004	(0.0005)	0.0003	0.004	0.009
2	CT ISO045A	13.39	1.18	11.38	3.12	0.228	0.002	0.001	0.0004	<0.010	0.006	0.004	.	.	.	0.005
1	IARM 309A	12.3	4.71	18.4	0.053	0.0059	0.018	0.004	0.0006	0.020	0.023	0.11	0.0032	0.0010	0.004	1.47
1	IMZ 524	12.25	4.95	13.75	0.085	0.012	0.68	(0.004)	0.004	0.13	0.024	.	.	0.0038	(0.007)	0.85
1	DSZU C093	12.08	3.79	15.80	0.42	0.013	0.32	(0.006)	(0.007)	(0.10)	(0.12)	0.17	.	.	.	1.56
1	IARM 99B	9.24	4.88	18.46	0.081	0.005	0.036	0.005	0.0005	0.022	0.094	0.095	0.0026	0.0011	(0.005)	0.74
1	BS 161A	9.22	4.82	18.40	0.12	0.004	0.031	0.004	0.0007	0.032	0.22	0.14	0.0023	(0.002)	(0.004)	0.65
2	CT 300	9.07	4.97	18.51	0.034	0.005	0.032	0.005	0.004	0.030	0.047	0.12	0.0020	.	.	0.69
1	13X 14934Q	9.03	4.22	17.60	0.388	0.0254	0.254	0.024	0.0288	0.502	.	0.15	.	0.0132	.	0.694
1	DSZU C091	8.07	4.98	18.20	0.12	0.035	0.092	(0.006)	(0.011)	(0.09)	(0.12)	0.05	.	.	.	0.81
1	IARM 308A	7.80	4.78	18.53	0.023	0.003	0.019	0.004	0.0005	0.014	0.018	0.097	0.0029	0.0013	0.003	0.46
1	ECRM 285-2D	7.76	4.99	18.07	0.0236	0.0018	0.0168	0.0053	0.0025	0.0117	0.0094	0.1067	0.0009	0.0007	.	0.520
2	CT 250	7.54	4.88	18.44	0.008	0.002	0.006	0.003	0.002	0.008	0.008	0.058	0.0024	.	.	0.41
1	13X 14935T	7.17	5.61	18.96	0.745	0.0105	0.494	0.036	0.055	0.441	.	(0.007)	.	0.0102	.	0.106
3	DSZU C55	6.5	1.25	2.34	14.1	0.23	0.69	0.033	0.023	0.70	.	.	.	0.11	0.29	.
3	DSZU C53	5.9	1.88	0.96	15.0	0.10	0.54	0.050	0.031	0.25	.	.	.	.	0.12	.
3	DSZU C54	5.3	1.45	1.95	18.4	0.07	0.55	0.040	0.020	0.54	.	.	.	0.13	0.41	.
1	DSZU C092	5.21	5.50	20.12	0.23	0.015	0.27	(0.006)	(0.009)	(0.10)	(0.16)	(0.006)	.	.	.	(0.008)
3	DSZU C51	4.7	0.72	1.78	11.0	0.20	0.40	0.017	0.036	0.24	.	.	.	0.090	0.12	.
3	DSZU C52	3.8	1.17	1.55	11.6	0.14	0.37	0.020	0.028	0.17	.	.	.	.	0.31	.
2	BS 85D	0.97	0.59	10.03	17.09	0.049	1.69	0.025	0.024	0.55	0.45	0.13	0.0006	0.016	0.065	0.48

Number	As	Ca	Fe	Mg	O	Sb	Sn	Ta	V	W	Zr	Units
IARM 326A	<0.005	.	49.6	(0.001)	0.0082	.	<0.001	(0.01)	1.94	(0.001)	0.002	31 mm Ø x 2 or 18 mm
CT ISO070A	.	.	34.66	.	.	.	.	<0.01	0.043	<0.01	.	30-35 mm Ø x 20-25 mm
IMZ 521	.	.	.	.	.	.	.	(0.002)	3.97	5.23	.	38 mm Ø x 20 mm
IMZ 522	.	.	.	.	.	.	.	(0.001)	2.21	2.25	.	38 mm Ø x 20 mm
IMZ 520	.	.	.	.	.	.	.	(0.002)	4.03	4.90	.	38 mm Ø x 20 mm
IARM 98B	<0.002	<0.0005	52.9	0.0040	0.0021	.	0.002	<0.05	(0.003)	(0.02)	<0.01	31 mm Ø x 2 or 18 mm
IMZ 523	.	.	.	.	.	.	(0.001)	.	2.01	1.87	.	38 mm Ø x 20 mm
IARM 242A	.	.	.	.	0.0006	.	(0.001)	0.008	0.01	<0.01	.	31 mm Ø x 2 or 18 mm
CT ISO045A	.	.	70.70	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
IARM 309A	.	.	.	.	0.0005	.	(0.001)	(0.006)	0.01	0.01	0.008	31 mm Ø x 2 or 18 mm
IMZ 524	(0.003)	.	.	.	.	.	.	.	3.02	1.84	.	38 mm Ø x 20 mm
DSZU C093	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x 17 mm
IARM 99B	.	.	.	.	0.0015	.	(0.003)	.	0.012	0.016	.	31 mm Ø x 2 mm
BS 161A	(0.002)	(0.0008)	25(pre-17025)	.	(0.0004)	.	(0.0015)	(0.03)	0.031	(0.008)	(0.002)	38 mm Ø x ~7 or 19+ mm
CT 300	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
13X 14934Q	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
DSZU C091	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x 17 mm
IARM 308A	.	.	.	.	0.0005	.	0.001	<0.01	0.01	0.01	0.01	31 mm Ø x 2 or 18 mm
ECRM 285-2D	.	.	.	.	.	.	.	.	.	.	0.0050	38 mm Ø x 25 or 30 mm
CT 250	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
13X 14935T	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
DSZU C55	.	.	.	.	.	.	.	.	0.16	1.1	.	42 mm Ø x 25 mm
DSZU C53	.	.	.	.	.	.	.	.	0.25	0.58	.	42 mm Ø x 25 mm
DSZU C54	.	.	.	.	.	.	.	.	0.40	0.62	.	42 mm Ø x 25 mm
DSZU C092	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x 17 mm
DSZU C51	.	.	.	.	.	.	.	.	0.08	0.32	.	42 mm Ø x 25 mm
DSZU C52	.	.	.	.	.	.	.	.	0.03	0.95	.	42 mm Ø x 25 mm
BS 85D	0.006	0.0004	.	.	0.0014	0.001	(0.006)	.	0.134	0.06	.	38 mm Ø x ~7 or 19+ mm

## TUNGSTEN IN STAINLESS AND HIGH ALLOY STEEL

# = Class, where 1 = CRM and 2 = RM

#	Number	W	Ni	Cr	C	Mn	P	S	Si	Cu	Co	Mo	N	Nb	Ti	V
1	VS LG57	4.24	25.2	13.70	0.016	0.52	0.011	0.0023	0.56	0.080	.	0.401	.	.	1.81	0.65
1	13X 14219K	4.17	12.66	21.46	0.0997	0.482	0.0401	0.0456	1.504	0.138	0.0475	0.169	.	0.140	.	0.0188
1	13X 14212S *	3.72	8.76	21.8	0.12	0.15	0.034	0.037	2.5	0.6	0.11	0.52	0.007	0.56	.	0.12
1	IARM 20B	3.52	1.94	12.42	0.18	0.35	0.019	0.004	0.40	0.069	0.030	0.32	0.0434	0.010	0.004	0.17
1	13X 14211Q	3.24	12.55	25.70	0.064	0.766	0.0157	0.0146	1.64	0.161	0.071	0.325	.	0.161	0.220	.
1	13X 14207K	3.17	12.64	19.85	0.146	0.900	0.021	0.051	1.525	0.247	0.031	0.300	0.095	0.246	.	.
1	VS LG59	3.08	35.1	15.81	0.073	1.15	0.011	0.0083	0.63	0.083	.	0.094	.	0.106	1.12	0.273
1	113X 14215L	3.02	15.86	22.89	0.136	1.110	0.0050	0.0068	0.596	0.0110	0.0057	0.0048	.	0.0196	.	0.0480
2	BS 183A	2.60	1.85	12.14	0.172	0.35	0.016	0.0040	0.37	0.093	0.036	0.12	0.0256	0.006	0.002	0.090
1	IARM 20C	2.59	1.93	12.15	0.18	0.30	0.018	0.007	0.35	0.060	0.031	0.12	0.0222	0.010	(0.003)	0.086
1	VS LG61	1.11	9.18	18.8	0.307	1.51	0.0133	0.0107	0.83	0.065	.	1.05	.	0.47	0.40	0.197
1	IMZ 161	1.05	0.55	12.90	0.074	0.29	0.023	0.023	0.65	0.56	.	1.10	.	.	.	0.33

Number	Al	As	B	Ca	O	Sb	Sn	Units
VS LG57	0.151	.	.	.	.	.	.	~47 mm Ø x ~30 mm
13X 14219K	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
13X 14212S *	* Provisional Analysis							~40 mm Ø x ~15 mm
IARM 20B	0.006	.	.	.	0.0056	.	0.005	31 mm Ø x 2 mm
13X 14211Q	(0.11)	.	.	.	.	.	.	~40 mm Ø x ~15 mm
13X 14207K	.	.	.	.	.	.	.	40 mm Ø x 15 mm
VS LG59	0.079	.	.	.	.	.	.	~47 mm Ø x ~30 mm
13X 14215L	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
BS 183A	0.002	(0.002)	(<0.0005)	0.0020	0.0065	(0.001)	0.003	38 mm Ø x ~7 or 19+ mm
IARM 20C	(0.004)	.	.	.	0.0068	.	0.004	31 mm Ø x 2 or 18 mm
VS LG61	0.033	.	.	.	.	.	.	~47 mm Ø x ~30 mm
IMZ 161	.	.	.	.	.	.	.	40 mm Ø x 40 mm

## MANGANESE STAINLESS STEEL

# = Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties

\* Provisional Analysis

# Number	Mn	Ni	Cr	C	P	S	Si	Cu	Mo	Al	Co	N	Nb	V	W
1 IARM 294A	21.6	2.9	19.7	0.017	0.026	0.0028	0.43	0.34	1.8	(0.01)	0.021	0.78	(0.03)	0.046	(0.01)
1 IARM 295A	19.7	1.84	18.0	0.021	0.028	0.0041	0.36	0.113	0.97	(0.01)	0.021	0.62	0.018	0.046	0.016
1 ECRM 294-1D	18.68	0.429	17.98	0.0657	0.0271	0.00031	0.283	0.0242	0.0861	(0.0095)	0.0288	0.566	(0.00117)	0.0694	(0.00114)
1 IARM 214A	18.3	2.33	12.36	0.018	0.033	0.002	1.00	0.36	0.44	(0.002)	0.021	0.27	0.23	0.04	0.02
1 VS RG20/1	15.77	0.673	14.35	0.064	(0.02)	(0.01)	0.81	0.265	0.089	.	.	.	0.175	0.166	0.007
1 VS RG22/1	13.41	3.94	13.25	0.054	(0.02)	(0.008)	0.63	0.358	0.121	.	.	.	0.38	0.125	0.137
2 BS 193	12.11	1.82	18.48	0.104	0.018	0.002	0.66	0.088	0.21	(0.003)	0.028	0.37	0.014	0.107	(0.007)
2 CT ISO035A	12.04	1.81	18.48	0.102	0.023	0.002	0.59	0.17	0.28	<0.004	0.037	0.33	0.004	0.058	0.002
1 13X NSC3Z	10.15	2.96	23.02	0.895	.	0.0110	1.28	0.100	0.060	0.105	.	0.498	2.81	0.110	.
1 13X NSC3Y	9.98	3.11	23.43	0.830	.	0.0102	1.32	0.08	0.071	0.050	.	0.54	2.29	0.131	.
2 BS 190	9.72	6.74	19.57	0.022	0.015	0.001	0.46	0.072	0.15	(0.004)	0.044	0.255	(0.004)	0.11	0.015
2 CT ISO129A	9.31	6.86	19.62	0.030	0.002	<0.001	0.40	0.152	0.25	0.014	0.102	0.264	0.025	0.144	0.03
1 IARM 19C *	9.02	6.40	19.51	0.012	0.027	0.0007	0.31	0.45	0.40	0.007	0.087	0.32	0.028	0.090	0.037
1 13X NSC6A	8.85	6.52	20.47	0.0266	0.0049	0.0055	0.523	0.0064	(0.002)	(0.009)	.	0.235	.	0.0052	.
1 VS RG23/1	8.74	1.98	18.5	0.045	(0.02)	(0.004)	0.49	0.099	0.401	.	.	.	0.24	0.69	0.3
1 13X NSC2P	8.70	4.20	21.98	0.560	.	0.0117	0.997	1.026	0.850	.	.	0.341	2.21	0.321	0.062
2 BS 181A	8.16	8.15	16.52	0.071	0.019	0.001	4.03	0.18	0.21	0.022	0.072	0.148	0.017	0.094	0.04
1 BS 181B	8.07	8.18	16.17	0.070	0.021	0.0009	3.94	0.206	0.173	0.0119	0.044	0.158	0.026	0.044	0.016
1 13X 21800A	8.00	8.32	16.81	0.0765	0.032	0.0011	4.03	0.431	0.325	0.012	0.0943	0.125	0.007	0.0619	.
1 13X NSC4F	7.97	7.03	32.58	0.513	.	0.0071	1.52	0.162	1.390	0.119	0.218	0.942	2.41	0.219	0.204
1 SRM 1297	7.11	5.34	16.69	0.066	0.038	0.0033	0.397	0.442	0.331	.	0.127	.	.	0.080	.
1 13X NSC1P	6.53	5.06	18.76	0.316	.	0.0097	0.788	0.391	0.196	.	.	0.0877	1.499	0.501	0.100
1 VS RG21/1	6.39	7.52	15.53	0.169	(0.02)	(0.008)	1.95	0.17	0.88	.	.	.	0.48	1.71	(0.2)
3 CZ SL-5A	5.8	4.94	11.7	0.37	0.021	0.014	0.36	2.90	4.12	0.035	0.26	.	0.20	0.21	0.78
2 BS 191	5.71	5.34	16.33	0.098	0.024	0.023	3.73	0.33	0.36	(0.002)	0.11	0.117	0.024	0.083	0.033
1 VS RG19/1	5.63	17.73	24.5	0.064	(0.02)	(0.009)	0.90	(0.2)	0.166	.	.	.	0.108	0.407	0.206
1 13X NSA4B	5.55	17.62	23.85	0.115	0.0302	0.0095	0.519	0.595	4.32	0.0048	.	0.446	0.154	.	.
1 13X NSA10A	5.23	12.98	20.67	0.0180	0.0206	0.0007	0.375	0.170	2.636	.	0.060	0.342	0.143	0.151	(0.061)
2 BS 180A	5.05	13.19	21.09	0.018	0.012	0.001	0.32	0.067	2.04	0.012	0.039	0.334	0.20	0.20	0.02
1 IARM 292A	5.0	1.47	21.35	0.030	0.018	0.001	0.75	0.29	0.097	0.010	0.031	0.245	0.009	0.084	0.01
1 BS 180B *	4.6	11.9	21.4	0.02	0.018	0.001	0.45	0.20	2.2	<0.05	0.10	0.33	0.14	0.15	0.04
1 13X NSA5A	4.27	9.52	20.73	0.063	(0.010)	0.0212	0.281	0.098	2.32	(0.012)	.	0.340	0.574	.	.
1 IARM 17D	4.15	11.83	21.06	0.041	0.026	0.0018	0.416	0.412	1.52	0.0032	0.23	0.311	0.14	0.118	0.056
1 13X NSC7A	3.80	7.41	23.63	0.410	0.0155	0.0091	0.803	0.144	0.448	(0.096)	0.308	0.337	0.509	0.123	0.052
1 13X NSC5B	2.22	4.34	22.10	0.558	.	0.0155	1.19	0.787	(0.009)	0.21	.	0.296	2.38	0.0461	.

Number	As	B	Ca	O	Pb	Sb	Sn	Ta	Te	Ti	Zr	Units
IARM 294A	.	(0.003)	.	(0.003)	.	.	(0.006)	(0.003)	.	(0.002)	(0.002)	31 mm Ø x 2 or 18 mm
IARM 295A	.	0.002	.	(0.003)	.	.	0.004	.	.	0.019	(0.001)	31 mm Ø x 2 or 18 mm
ECRM 294-1D	0.0037	(<0.00005)	(0.00026)	.	(0.000128)	(0.00053)	(0.0014)	.	(<0.00008)	(0.0008)	(0.0001)	40 mm Ø x 20 mm
IARM 214A	.	(0.001)	.	0.0026	.	.	0.008	.	.	0.002	.	31 mm Ø x 2 or 18 mm
VS RG20/1	.	.	.	.	.	.	.	.	.	0.093	.	~45 mm Ø x ~30 mm
VS RG22/1	.	.	.	.	.	.	.	.	.	0.33	.	~45 mm Ø x ~30 mm
BS 193	.	0.0007	0.0020	(0.004)	.	.	0.004	.	.	0.003	.	32 mm Ø x ~7 or 19+ mm
CT ISO035A	.	Fe: 65.91	.	(<0.0001)	.	.	0.003	.	.	0.001	<0.001	30-35 mm Ø x 20-25 mm
13X NSC3Z	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
13X NSC3Y	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm last
BS 190	.	0.0005	.	0.0045	.	.	0.003	.	.	0.002	.	38 mm Ø x ~7 or 19+ mm
CT ISO129A	.	Fe: 62.62	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
IARM 19C *	(0.004)	0.0011	.	0.003	.	.	0.0061	0.005	.	0.003	.	31 mm Ø x 2 or 18 mm
13X NSC6A	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 13 mm HIP
VS RG23/1	.	.	.	.	.	.	.	.	.	0.21	.	~45 mm Ø x ~30 mm
13X NSC2P	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
BS 181A	.	0.0009	.	0.0010	.	.	0.005	.	.	0.007	.	38 mm Ø x ~7 or 19+ mm
BS 181B	(0.002)	(0.0008)	(0.001)	0.0010	(0.0005)	(0.0007)	(0.004)	Fe:62.9	17025	0.0051	(0.0004)	38 mm Ø x ~7 or 19+ mm
13X 21800A	.	(0.001)	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~15 mm
13X NSC4F	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
SRM 1297	.	.	.	.	.	.	.	.	.	.	.	32 mm Ø x 19 mm
13X NSC1P	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
VS RG21/1	.	.	.	.	.	.	.	.	.	0.18	.	~45 mm Ø x ~30 mm
CZ SL-5A	0.005	.	.	.	.	.	0.004	0.07	.	0.004	.	~39 mm Ø x 25 mm
BS 191	.	(0.0006)	.	0.002	.	.	(0.006)	0.002	.	0.012	.	38 mm Ø x ~7 or 19+ mm
VS RG19/1	.	.	.	.	.	.	.	.	.	0.14	.	~45 mm Ø x ~30 mm
13X NSA4B	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
13X NSA10A	.	0.0031	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~15 mm
BS 180A	.	(0.0023)	.	0.003	.	.	(0.002)	.	.	(0.002)	.	37 mm Ø x ~7 or 19+ mm
IARM 292A	.	0.0011	.	0.0024	.	.	0.004	(0.006)	.	0.005	.	31 mm Ø x 2 or 18 mm
BS 180B *	<0.05	0.001	<0.005	<0.05	<0.005	.	<0.05	<0.05	.	<0.05	<0.05	38 mm Ø x ~7 or 19+ mm
13X NSA5A	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~14 mm
IARM 17D	0.005	0.001	(0.002)	0.003	(0.0002)	(0.001)	0.0044	(0.003)	.	0.010	(0.002)	31 mm Ø x 2 or 18 mm
13X NSC7A	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~13 mm
13X NSC5B	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm

## CRM NICKEL BINARIES

analysis listed in mass %

~40 mm Ø x ~15 mm

Number	Ni	C	Mn	P	S	Si	Cu	Cr	Al	Co	N	Mg	Mo	Nb	Ti	W
14X FeNi50B	50.09	0.0488	0.115	0.0259	0.243	0.203	0.105	0.093	0.052	0.499	.	.	.	.	.	last
14X FeNi45B	45.20	0.0045	0.0149	0.0416	0.038	0.567	0.078	0.048	0.552	0.654	.	.	.	.	.	.
14X 94100A	41.00	0.0055	0.443	0.0051	0.0027	0.103	0.0628	0.0265	.	0.0208	0.0016	0.0021	0.0053	(0.01)	0.0011	0.0017
14X FeNi35C	34.52	0.082	0.174	0.030	0.140	0.309	0.355	0.1006	0.004	0.343	.	.	.	.	.	.
14X FeNi25B	25.10	0.0084	0.0121	0.011	0.58	0.019	0.035	0.0334	0.103	0.746	.	.	.	.	.	.
14X FeNi20B	20.06	0.0137	0.0284	0.010	0.0089	1.12	0.074	0.102	0.018	0.994	.	.	.	.	.	.
14X FeNi10A	10.12	0.095	0.272	0.015	0.027	0.061	0.029	0.070	0.025	.	0.0055	.	.	.	.	.
14X FeNi8A	8.10	0.097	0.330	0.015	0.029	0.097	0.030	0.250	0.029	.	0.0061	.	.	.	.	.
14X FeNi6A	6.08	0.100	0.330	0.0155	0.028	0.075	0.028	0.073	0.025	.	0.0055	.	.	.	.	.

## SULFUR AND PHOSPHORUS IN STAINLESS AND HIGH ALLOY STEEL

# = Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties

#	Number	S	P	Ni	Cr	C	Mn	Si	Cu	Al	Co	Mo	N	Nb	Ti	V
2	CT 416	0.36	0.018	0.24	13.15	0.088	0.52	0.63	0.004	.	0.019	0.065	0.020	.	.	0.025
1	IARM 1D	0.34	0.025	9.50	18.24	0.061	1.98	0.22	0.51	.	0.208	0.130	0.027	<0.005	(0.002)	0.101
2	BS 150	0.33	0.020	0.19	18.61	0.048	1.71	0.43	0.042	0.002	0.024	1.97	0.029	0.003	.	0.054
1	SRM 1223	0.329	0.018	0.232	12.64	0.127	1.08	0.327	0.081	.	.	0.053	.	.	.	0.068
2	BS 90F	0.328	0.023	0.30	13.01	0.085	0.53	0.58	0.12	(0.006)	0.021	0.14	0.037	0.011	.	0.076
1	<b>BS 303</b>	0.326	0.028	8.17	17.23	0.044	1.80	0.415	0.627	0.0019	0.071	0.410	0.023	0.008	0.017	0.056
1	13X 30300A	0.312	0.0205	8.60	17.62	0.041	1.83	0.422	0.025	.	0.0255	0.334	0.034	.	.	0.091
2	CT 303	0.31	0.029	9.08	17.78	0.070	1.64	0.58	0.49	.	0.16	0.41	.	.	.	0.044
2	BS 154	0.302	0.027	0.25	17.58	0.030	0.40	1.26	0.063	(0.002)	0.019	0.31	0.039	0.005	.	0.046
2	13X 12549K	0.29	0.092	1.26	11.70	0.16	0.34	0.43	0.10	.	0.52	1.49	.	0.23	.	.
2	BS 153	0.280	0.018	0.140	17.38	0.026	0.41	0.53	0.052	0.002	0.017	0.30	0.021	0.002	(0.004)	0.045
2	BS 152	0.275	0.022	0.14	13.41	0.320	0.36	0.44	0.050	(0.002)	0.015	0.061	0.020	0.006	.	0.051
3	CZ SP-1A	0.26	0.024	8.6	17.7	0.047	1.87	0.33	0.52	0.004	0.095	0.42	.	0.012	0.02	0.058
1	13X 12548M	0.219	0.027	1.075	12.96	0.188	0.577	0.425	0.230	.	0.353	1.318	0.0500	0.586	.	.
1	13X 43020A *	0.19	0.025	0.52	16.0	0.15	1.45	0.45	0.07	0.005	0.02	0.23	0.022	0.01	.	0.055
1	IMZ 154	0.16	0.040	9.86	17.71	0.076	2.18	0.89	0.33	(0.16)	0.105	2.58	.	.	1.00	0.073
2	BS 155	0.145	0.014	0.13	16.64	1.00	0.35	0.40	0.035	(0.001)	0.019	0.46	0.032	0.002	.	0.10
1	13X 12536S	0.136	0.052	12.07	15.30	0.149	0.406	0.865	0.065	0.049	0.298	2.54	0.062	.	0.105	.
1	13X 8110L	0.068	0.052	4.62	12.30	0.750	0.446	0.812	0.344	(0.071)	0.31	2.81	0.0286	.	0.0108	0.211
1	13X 12535BE	0.0591	0.0400	14.79	16.95	0.229	0.342	1.407	0.130	0.194	0.146	4.09	0.029	.	0.625	0.252
1	SRM C1154a	0.051	0.06	13.08	19.31	0.100	1.44	0.53	0.44	.	0.38	0.068	.	.	.	0.135
1	13X 19003C	0.046	0.0382	12.46	18.99	0.047	1.138	0.497	0.171	.	0.105	2.50	0.077	0.120	.	0.0486
1	VS LG58	0.0280	0.0135	4.26	23.4	0.48	0.99	0.292	0.388	.	.	2.41	0.062	0.214	0.039	0.264
1	VS LG60	0.0205	0.028	19.86	21.8	0.020	2.31	0.289	0.027	0.040	.	3.62	.	0.83	0.265	0.229
2	13X 19004B	0.014	0.069	17.9	22.8	0.066	1.96	0.36	0.022	.	.	3.62	.	0.18	.	.
1	13X 18004B	0.0191	0.068	12.67	21.57	0.099	1.400	1.21	0.050	0.011	0.211	0.601	0.061	0.749	.	0.161

Number	Ag	As	B	O	Pb	Sn	Ta	W	Units
CT 416	0.0002	.	.	.	<0.001	0.005	.	.	30-35 mm Ø x 20-25 mm
IARM 1D	.	.	<0.002	0.007	.	0.006	0.015	.	31 mm Ø x 18 mm last of stock
BS 150	.	.	.	0.012	.	(0.003)	.	0.01	35 mm Ø x ~7 or 19+ mm
SRM 1223	.	.	.	.	.	.	.	.	32 mm Ø x 19 mm
BS 90F	.	.	.	0.011	.	0.005	.	0.032	38 mm Ø x ~7 or 19+ mm
<b>BS 303</b>	.	.	0.0013	0.0058	.	0.0091	.	0.023	44 mm Ø x ~7 or 19+ mm <b>17025</b>
13X 30300A	.	.	0.0035	.	.	.	.	.	~40 mm Ø x ~15 mm
CT 303	0.0003	.	.	.	0.001	0.007	.	.	30-35 mm Ø x 20-25 mm
BS 154	.	.	.	0.008	.	(0.005)	(0.01)	.	38 mm Ø x ~7 or 19+ mm
13X 12549K	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
BS 153	.	(0.004)	.	.	(0.001)	0.002	.	(0.002)	35 mm Ø x ~7 or 19+ mm
BS 152	.	.	.	.	.	0.003	.	<0.01	41 mm Ø x ~7 or 19+ mm
CZ SP-1A	.	0.006	0.0007	.	.	0.01	.	0.03	~39 mm Ø x 25 mm
13X 12548M	.	.	.	.	.	Sb:0.022	.	0.031	40 mm Ø x 15 mm
13X 43020A *	.	.	0.005	.	.	* Provisional Analysis	.	0.01	~40 mm Ø x ~15 mm
IMZ 154	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
BS 155	.	.	.	0.0048	.	(0.003)	.	.	36 mm Ø x ~7 or 19+ mm
13X 12536S	.	.	0.0274	.	.	0.018	0.091	.	~40 mm Ø x ~15 mm
13X 8110L	.	0.074	0.989	.	.	.	.	.	~40 mm Ø x ~15 mm
13X 12535BE	.	.	0.0051	.	.	0.0194	(0.020)	.	~40 mm Ø x ~15 mm
SRM C1154a	.	.	.	.	0.017	.	.	.	32 mm Ø x 19 mm
13X 19003C	.	.	.	.	.	(0.005)	.	.	~40 mm Ø x ~15 mm
VS LG58	.	.	.	.	.	.	.	0.21	~47 mm Ø x ~30 mm
VS LG60	.	.	.	.	.	.	.	0.115	~47 mm Ø x ~30 mm
13X 19004B	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
13X 18004B	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm

## SELENIUM IN STAINLESS AND HIGH ALLOY STEEL

# = Class, where 1 = CRM and 2 = RM

#	Number	Se	Ni	Cr	C	Mn	P	S	Si	Cu	Al	Co	Mo	N	Nb	Ti
2	BS 151	0.328	0.24	13.19	0.090	0.41	0.021	0.018	0.65	0.11	(0.002)	0.018	0.088	0.022	0.005	(<0.003)
2	BS 186A	0.229	35.86	0.16	0.040	0.72	0.008	0.0053	0.19	0.016	(0.001)	0.028	0.0032	0.0026	(<0.002)	(<0.003)
1	IARM 253A	0.21	9.17	17.90	0.041	1.50	0.140	0.0089	0.50	0.223	0.003	0.088	0.348	0.0373	0.016	0.002
1	IARM 24B	0.19	35.86	0.121	0.053	0.82	0.009	0.0010	0.28	0.052	0.002	0.036	0.011	0.0017	<0.01	0.002
2	CT ISO124A	0.167	48.07	0.079	0.011	0.73	0.007	0.006	0.40	0.015	.	0.012	0.009	.	.	.
2	BS 156	0.142	0.35	16.87	1.06	1.15	0.022	0.007	0.47	0.09	(<0.002)	0.047	0.50	0.041	0.005	0.001

Number	B	Fe	O	Sn	Ta	V	W	Zr	Units
BS 151	.	.	0.009	0.005	.	0.046	0.010	.	50 mm Ø x ~7 or 19+ mm
BS 186A	.	.	.	(0.002)	.	0.0012	(0.01)	.	38 mm Ø x ~7 or 19+ mm
IARM 253A	0.0003	.	0.009	0.01	.	0.106	0.10	.	31 mm Ø x 2 or 18 mm
IARM 24B	(0.001)	62.6	0.003	0.0018	<0.005	<0.005	<0.04	<0.005	31 mm Ø x 2 or 18 mm
CT ISO124A	.	50.65	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
BS 156	.	.	0.0045	(0.004)	.	0.13	0.11	.	41 mm Ø x ~7 or 19+ mm

## STAINLESS STEEL WITH NI &lt; 5.0 %

## CONTINUED ON THE NEXT PAGE

# = Class, 1=CRM, 2=RM, and 3=RM with no uncertainties analysis listed in mass % except \* which is mg/Kg \*\* Provisional Analysis

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Co	Mo	N	Nb	Ti	V	W
1	14X HS11A	1.739	0.237	0.0133	0.0107	0.794	0.0562	0.188	19.34	0.074	1.52	(0.002)	.	.	1.032	2.24
1	14X HS10A	1.710	0.134	0.0135	0.0099	0.660	0.0605	0.146	14.83	0.0866	1.679	(0.001)	.	.	1.142	1.75
3	CZ SL-4A	1.38	2.85	0.038	0.017	2.28	0.75	2.04	26.3	0.11	0.92	.	1.11	0.8	0.54	0.35
2	BS 156	1.06	1.15	0.022	0.007	0.47	0.09	0.35	16.87	0.047	0.50	0.041	0.005	0.001	0.13	0.11
1	BS 93F	1.047	0.59	0.0266	(0.0025)	0.49	0.132	0.187	16.72	0.021	0.46	0.051	0.0029	0.0012	0.057	0.0016
1	13X 44004A	1.052	0.346	0.0214	0.0178	0.363	0.0548	0.207	16.74	0.0188	0.462	0.0247	.	.	0.076	0.030
1	IARM 13D **	1.04	0.70	0.020	0.0010	0.61	0.18	0.26	16.4	0.021	0.49	0.049	0.007	(0.003)	0.058	0.04
2	BS 155	1.00	0.35	0.014	0.145	0.40	0.035	0.13	16.64	0.019	0.46	0.032	0.002	.	0.10	.
1	NCS HS41752	0.97	0.46	0.023	0.0016	0.48	0.082	0.192	17.61	0.021	0.057	.	.	.	0.088	.
1	ECRM 291-1D	0.90	0.81	0.017	0.0088	0.91	0.071	0.56	17.15	0.0233	2.10	0.1142	.	.	0.39	.
1	VS LG40/1	0.66	0.318	(0.02)	(0.006)	0.289	(0.15)	0.271	13.67	.	0.039	.	.	.	0.038	.
1	VS LG39/1	0.406	0.64	(0.02)	(0.007)	0.94	(0.12)	0.42	13.11	.	0.136	.	.	.	0.135	.
1	13X 14122A **	0.35	0.47	0.017	0.002	0.46	0.065	0.62	15.9	0.022	0.85	0.030	0.006	.	0.10	0.003
1	IARM 154B	0.35	0.405	0.017	0.0004	0.45	0.087	0.223	12.20	0.020	0.079	0.020	0.003	0.002	0.067	0.010
2	BS SS4952	0.347	0.41	0.016	0.003	0.66	0.045	0.23	13.15	0.030	0.049	0.027	0.004	0.002	0.089	(0.007)
1	IARM 154C **	0.339	0.42	0.017	0.004	0.37	0.120	0.21	12.4	0.016	0.036	0.054	0.017	0.0013	0.042	(0.005)
2	BS SS4951	0.333	0.58	0.016	0.0012	0.62	0.033	0.15	13.55	0.013	0.009	0.0127	0.006	0.002	0.032	.
2	BS 152	0.320	0.36	0.022	0.275	0.44	0.050	0.14	13.41	0.015	0.061	0.020	0.006	.	0.051	<0.01
1	IRSID 1825	0.305	0.650	0.019	0.022	0.336	0.100	0.08	12.90	0.026	0.052	0.052	.	.	0.052	.
1	ECRM 272-1D	0.2815	0.600	0.0156	0.0196	0.420	0.0192	0.2445	11.927	0.0145	0.0030	0.0508	0.0028	0.00096	0.0167	.
1	SS 469	0.279	0.598	0.015	0.020	0.421	(0.02)	0.246	11.93	(0.01)	.	.	.	.	(0.02)	.
1	VS LG38/1	0.255	0.73	(0.02)	(0.01)	0.81	(0.16)	0.551	11.75	.	0.344	.	.	.	0.190	.
1	IMZ 168	0.24	1.36	0.019	0.012	1.12	0.093	0.17	13.91	(0.019)	0.026	(0.057)	.	(0.003)	0.053	.
1	13X 12547M	0.238	1.191	0.0441	0.0746	0.344	0.531	1.492	17.49	0.302	1.009	0.099	0.347	.	0.1021	.
1	BS 422	0.232	0.640	0.0169	0.0013	0.404	0.080	0.676	11.25	0.0293	0.896	0.050	0.045	0.0011	0.274	0.95
1	IARM 205D **	0.23	0.74	0.021	(0.003)	0.26	0.121	0.84	12.2	0.043	1.00	0.048	0.013	(0.002)	0.32	1.09
1	SS 472	0.227	1.02	0.032	0.029	1.05	(0.02)	1.95	15.82	(0.02)	0.661	.	.	.	(0.02)	.
1	13X 42200A **	0.22	0.65	0.018	0.001	0.32	0.14	0.73	11.5	0.01	1.06	0.02	0.02	.	0.25	1.15
1	NCS HS41749	0.21	0.39	0.023	0.012	0.56	1.15	1.52	12.27	.	0.158	.	.	.	0.074	.
1	13X 42000A	0.208	0.679	0.0241	0.0253	0.496	0.202	0.295	12.56	0.0161	0.0398	0.0273	.	.	0.046	.
1	VS LG41/1	0.200	0.91	(0.02)	(0.008)	0.64	(0.12)	1.53	15.90	.	0.277	.	.	.	0.303	.
1	13X 14923A **	0.20	0.50	0.021	0.003	0.33	0.055	0.46	11.2	0.02	0.82	0.033	0.005	.	0.30	.
1	IMZ 171	0.195	0.42	0.020	0.014	0.21	0.116	0.59	11.44	0.024	1.23	0.057	.	(0.001)	0.26	.
1	NCS HS41748	0.194	0.62	0.016	0.011	0.54	0.008	0.077	12.70	.	0.010	.	.	.	0.048	.
2	HRT FE2015-H	0.19	0.52	0.021	0.002	0.37	0.07	0.25	12.87	.	0.07	0.045	.	.	0.055	.
1	13X 12548M	0.188	0.577	0.027	0.0219	0.425	0.230	1.075	12.96	0.353	1.318	0.0500	0.586	.	.	0.031
2	HRT FE2010-H	0.18	0.60	0.024	0.004	0.35	0.08	1.94	15.95	0.023	0.13	.	.	.	0.044	0.024
1	SS 70	0.18	0.38	0.024	0.020	0.35	(0.06)	0.40	16.35	.	.	.	.	.	.	.
1	IARM 20B	0.18	0.35	0.019	0.004	0.40	0.069	1.94	12.42	0.030	0.32	0.0434	0.010	0.004	0.17	3.52
1	IARM 20C	0.18	0.30	0.018	0.007	0.35	0.060	1.93	12.15	0.031	0.12	0.0222	0.010	(0.003)	0.086	2.59
1	IMZ 167	0.175	1.16	0.016	0.0025	0.755	0.106	0.16	13.07	(0.021)	0.024	0.053	.	(0.002)	0.054	.
1	SS 473	0.172	0.494	0.019	0.030	0.604	(0.02)	(0.06)	9.06	(0.01)	0.95	.	.	.	(0.02)	.
2	ES 183A	0.172	0.172	0.015	0.0040	0.093	1.85	0.09	11.14	0.035	0.12	0.0256	0.006	0.002	0.090	2.60
1	13X 15024X	0.166	0.610	0.0284	0.0294	0.750	0.332	2.35	14.25	0.1059	0.299	0.0156	0.099	.	0.150	0.039
1	13X 43100A	0.166	0.378	0.0199	0.0050	0.535	0.134	2.10	16.39	0.0239	0.0768	0.075	0.006	.	0.0577	0.004
#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Co	Mo	N	Nb	Ti	V	W
2	13X 12549K	0.16	0.34	0.092	0.29	0.43	0.10	1.26	11.70	0.52	1.49	.	0.23	.	.	.
1	IARM 12C	0.155	0.55	0.022	0.0032	0.34	0.33	2.23	15.78	0.048	0.125	0.056	0.020	(0.002)	0.040	0.015
1	SS 470	0.153	0.235	0.024	0.035	0.335	(0.02)	0.369	17.68	(0.02)	.	.	.	.	(0.02)	.
2	BS 92B	0.150	0.42	0.021	0.003	0.42	0.13	2.12	15.92	0.04	0.17	0.073	(0.006)	.	0.07	0.02
1	SRM 1219	0.149	0.42	0.026	0.001	0.545	0.162	2.16	15.64	.	0.164	0.078	.	.	.	0.056
2	CT X68887	0.147	0.51	0.016	0.007	0.36	0.074	0.22	11.86	.	0.008	0.028	0.12	.	.	.
2	CT X68890	0.147	0.48	0.015	0.007	0.35	0.64	0.110	11.87	.	0.009	0.030	0.10	.	.	.
2	BS 431	0.146	0.579	0.0232	0.0047	0.393	0.282	2.25	15.7	0.050	0.092	0.049	0.034	0.0007	0.062	0.012
1	IARM 335A	0.138	0.85	0.016	0.0005	0.39	0.086	4.27	15.30	0.063	2.72	0.085	0.015	(0.002)	0.094	0.008
1	BS 355	0.136	0.862	0.0171	0.0003	0.374	0.173	4.18	15.43	0.053	2.73	0.081	0.0103	0.0007	0.106	0.0069
1	13X 41001A	0.136	0.464	0.0142	0.0037	0.298	0.056	0.0939	12.06	0.0143	0.0102	0.0316	.	.	0.079	.
1	NCS HS28747	0.132	0.453	0.027	0.0068	0.502	0.126	1.79	16.24	0.051	0.153	0.030	.	(0.002)	0.075	.
1	13X 12540M	0.131	0.800	0.051	0.052	0.805	0.81	4.975	27.44	0.109	0.933	0.054	0.107	(0.002)	0.210	0.097
1	BS 410C	0.131	0.281	0.06	0.051	0.084	0.084	2.52	12.78	0.035	0.055	0.029	0.056	0.0006	0.042	0.0131
1	BS 0021	0.128	0.420	0.021	0.008	0.354	0.040	0.100	12.00	0.015	0.016	0.029	(0.001)	(0.003)	0.029	0.005
1	IARM 10C	0.128	0.35	0.026	0.29	0.37	0.155	0.24	12.25	0.022	0.08	0.015	0.003	0.002	0.024	0.011
1	SRM 1223	0.127	1.08	0.018	0.329	0.327	0.081	0.232	12.64	.	0.053	.	.	.	0.068	.
1	ECRM 296-1D	0.1166	0.676	0.0178	0.0026	0.242	0.1498	2.790	11.82	0.0218	1.700	0.0214	.	.	0.363	.
1	BS 416	0.116	0.64	0.0237	0.35	0.232	0.154	0.371	13.41	0.0241	0.030	0.043	(0.006)	0.0012	0.100	0.0034
2	CT X23576	0.116	0.40	0.018	0.027	0.40	0.072	0.26	12.30	.	0.062	0.032	.	.	.	.
1	13X 15035U	0.115	0.674	0.0415	0.0456	0.636	0.204	2.38	14.00	0.199	0.399	0.0584	0.500	.	0.160	0.048
1	13X 64152A	0.114	0.666	0.0123	0.0020	0.224	0.0622	2.50	11.34	0.0185	1.567	0.0339	.	.	0.275	.
1	13X															



## STAINLESS STEEL WITH NI &lt; 5.0 %

## CONTINUED FROM THE PREVIOUS PAGE

analysis listed in mass % except \* which is mg/kg

\*\* Provisional Analysis

Number	Al	As	B	Ca*	Mg*	Pb*	O	Sb	Se	Sn	Ta	Zn	Zr	Units
14X HS11A	.	.	.	.	.	.	.	.	.	.	.	.	.	~48 mm Ø x 13 mm
14X HS10A	.	.	.	.	.	.	.	.	.	.	.	.	.	~48 mm Ø x 13 mm
CZ SL-4A	0.12	.	0.0013	.	.	.	.	.	.	0.02	.	.	.	~39 mm Ø x 25 mm
BS 156	(<0.002)	.	.	.	.	.	0.0045	.	0.142	(0.004)	.	.	.	41 mm Ø x ~7 or 19+ mm
<b>BS 93F</b>	0.0052	0.0056	(0.0001)	19	(6)	(2)	0.0031	0.0016	.	0.0059	.	<b>17025</b>	(0.001)	38 mm Ø x ~7 or 19+ mm Fe:[80.2]
13X 44004A	0.0305	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x ~15 mm
IARM 13D **	0.006	(0.01)	(0.001)	(10)	.	.	(0.003)	(0.002)	<0.005	0.011	(0.003)	.	(0.001)	31 mm Ø x 2 or 18 mm
BS 155	(0.001)	.	.	.	.	.	0.0048	.	.	(0.003)	.	.	.	36 mm Ø x ~7 or 19+ mm
NCS HS41752	(0.032)	.	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 35 mm
ECRM 291-1D	.	.	.	.	.	.	.	.	.	.	.	.	.	36-41 mm Ø x 28-35 mm
VS LG40/1	.	.	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
VS LG38/1	.	.	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
13X 14122A **	0.002	.	.	.	.	.	.	.	.	0.003	.	.	.	~40 mm Ø x ~15 mm
IARM 154B	0.002	.	(0.001)	.	.	.	0.0016	.	.	0.006	.	.	.	31 mm Ø x 18 mm last
BS SS4952	0.003	0.002	(0.0004)	19	.	.	0.005	.	.	0.004	.	.	.	38 mm Ø x ~7 or 19+ mm
IARM 154C **	(0.003)	(0.004)	0.0007	.	.	.	(0.004)	(0.001)	(0.0003)	0.006	.	.	(0.001)	31 mm Ø x 2 or 18 mm
BS SS4951	0.002	0.002	.	.	.	.	0.0055	.	.	0.003	.	.	.	42 mm Ø x ~7 or 19+ mm
BS 152	(0.002)	.	.	.	.	.	.	.	.	0.003	.	.	.	41 mm Ø x 19+ mm
IRSID 1825	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 30 mm
ECRM 272-1D	0.0046	0.0116	0.0018	9.0	(2)	.	.	0.0007	.	.	.	0.0031	.	38 mm Ø x 25 or 30 mm
SS 469	.	.	.	.	.	.	.	.	.	.	.	.	.	35 mm Ø x 19 mm
VS LG38/1	.	.	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
IMZ 168	(0.004)	.	.	.	.	.	.	.	.	0.009	.	.	.	40 mm Ø x 40 mm
13X 12547M	.	.	.	.	.	.	.	.	.	0.030	.	.	.	~40 mm Ø x ~15 mm
<b>BS 422</b>	0.0135	0.0041	(0.0002)	31	(9)	(0.5)	0.0030	(0.0007)	.	0.0043	(0.0001)	<b>17025</b>	(0.001)	38 mm Ø x ~7 or 19+ mm Fe:84.5
IARM 205D **	(0.002)	(0.005)	(0.001)	(10)	.	.	(0.005)	.	.	(0.005)	(0.003)	.	(0.002)	31 mm Ø x 2 or 18 mm
SS 472	.	.	.	.	.	.	.	.	.	.	.	.	.	35 mm Ø x 19 mm
13X 42200A **	0.003	.	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~15 mm
NCS HS41749	.	.	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 35 mm
13X 42000A	.	.	0.0013	.	.	.	.	.	.	0.0073	.	.	.	~38 mm Ø x ~15 mm
VS LG41/1	.	.	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
13X 14923A **	0.003	.	.	50	.	.	.	.	.	0.003	.	.	.	~40 mm Ø x ~15 mm
IMZ 171	0.036	.	.	.	.	.	.	(0.003)	.	0.008	.	.	.	40 mm Ø x 40 mm
NCS HS41748	.	.	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 35 mm
HRT FE2015-H	.	.	.	.	.	.	.	.	.	.	.	.	.	30 mm Ø x 20 mm
13X 12548M	.	.	.	.	.	.	.	0.022	.	.	.	.	.	40 mm Ø x 15 mm
HRT FE2010-H	.	.	.	.	.	.	.	.	.	.	.	.	.	35 mm Ø x 20 mm
SS 70	.	.	.	.	.	.	.	.	.	.	.	.	.	44 mm Ø x 13 mm
IARM 20B	0.006	.	.	.	.	.	0.0056	.	.	0.005	.	.	.	31 mm Ø x 2 mm
IARM 20C	(0.004)	.	.	.	.	.	0.0068	.	.	0.004	.	.	.	31 mm Ø x 2 or 18 mm
IMZ 167	(0.018)	.	.	.	.	.	.	.	.	0.009	.	.	.	40 mm Ø x 40 mm
SS 473	.	.	.	.	.	.	.	.	.	.	.	.	.	35 mm Ø x 19 mm
BS 183A	0.002	(0.002)	(<0.0005)	20	.	.	0.0065	(0.001)	.	0.003	.	.	.	~40 mm Ø x ~15 mm
13X 15024X	0.0049	.	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
13X 43100A	.	.	.	.	.	.	.	.	.	0.004	.	.	.	~38 mm Ø x ~15 mm
Number	Al	As	B	Ca*	Mg*	Pb*	O	Sb	Se	Sn	Ta	Zn	Zr	Units
13X 12549K	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
IARM 12C	(0.004)	(0.004)	0.0004	7	(2)	(5)	(0.005)	.	.	0.008	(0.0005)	.	(0.001)	31 mm Ø x 2 or 18 mm
SS 470	.	.	.	.	.	.	.	.	.	.	.	.	.	35 mm Ø x 19 mm
BS 92B	(0.002)	.	.	(9)	.	.	0.0064	.	.	0.006	.	.	.	44 mm Ø x ~7 mm last
SRM 1219	.	.	.	.	.	.	.	.	.	.	.	.	.	34 mm Ø x 19 mm
CT X68887	<0.004	.	.	.	.	.	.	.	.	0.004	.	.	.	30-35 mm Ø x 20-25 mm
CT X68890	<0.004	.	.	.	.	.	.	.	.	0.004	.	.	.	30-35 mm Ø x 20-25 mm
<b>BS 431</b>	0.0019	0.0038	0.0003	7	(2)	.	0.0059	0.0011	.	0.0134	.	<b>17025</b>	(0.001)	38 mm Ø x ~7 or 19+ mm Fe: 80.2
IARM 335A	0.019	(0.01)	0.0007	(10)	.	.	0.0020	.	.	0.0034	(0.01)	.	(0.002)	31 mm Ø x 2 or 18 mm
<b>BS 355</b>	0.0192	0.0039	(0.0001)	(2)	(2)	(0.3)	0.0020	(0.0009)	.	0.0038	(0.0001)	.	(0.003)	41 mm Ø x ~7 or 19+ mm <b>17025</b>
13X 41001A	(0.004)	.	.	10	.	.	.	.	.	0.0051	.	.	.	~41 mm Ø x ~15 mm
NCS HS28747	.	0.0063	.	.	.	1	.	.	.	0.0057	.	.	.	38 mm Ø x 35 mm
13X 12540M	.	.	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
<b>BS 0021</b>	0.0079	0.0029	(0.0001)	22	(3)	(1)	0.0051	(0.0002)	.	0.0023	(0.001)	.	(0.0002)	38 mm Ø x ~7 or 19+ mm <b>17025</b>
IARM 10C	0.003	.	<0.0005	.	.	.	0.008	.	.	0.003	.	.	.	40 mm Ø x ~7 or 19+ mm
SRM 1223	.	.	.	.	.	.	.	.	.	.	.	last of stock	.	31 mm Ø x 2 or 18 mm
ECRM 296-1D	0.0275	0.0139	(0.0003)	.	.	.	1.6	.	.	0.0131	.	.	.	32 mm Ø x 19 mm
<b>BS 416</b>	(0.002)	0.0039	(0.001)	(3)	(3)	(6)	0.0081	(0.002)	.	(0.005)	(0.004)	<b>17025</b>	(0.002)	38 mm Ø x ~7 or 19+ mm Fe:[84.3]
CT X23576	.	.	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
13X 15035U	(0.093)	.	.	.	.	.	.	.	.	0.0053	.	.	.	~40 mm Ø x ~15 mm
13X 64152A	0.0315	.	.	.	.	.	.	.	.	0.0066	.	.	.	~38 mm Ø x ~15 mm
13X 41600A	(0.004)	.	.	.	.	.	.	.	.	0.0097	.	.	.	~41 mm Ø x ~15 mm
13X 12533Z	0.059	.	0.0100	.	.	.	.	.	.	0.004	(0.001)	.	<0.005	~40 mm Ø x ~15 mm
IARM 291A	(0.004)	.	0.001	.	.	.	0.014	.	.	.	.	.	.	31 mm Ø x 2 or 18 mm
CT 410	0.015	.	.	.	.	.	<10	.	.	0.006	.	.	.	30-35 mm Ø x 20-25 mm Ag: 2 ppm
IMZ 156	(0.034)	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
SS 471	.	.	.	.	.	.	.	.	.	.	.	.	.	35 mm Ø x 19 mm
IMZ 158	1.56	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
BS 151	(0.002)	.	.	.	.	.	0.009	0.328	0.005	.	.	.	.	50 mm Ø x ~7 or 19+ mm
13X 15023W **	0.003	.	.	.	.	.	.	.	.	0.005	.	.	.	~40 mm Ø x ~15 mm
13X 14742A **	0.02	.	.	.	.	.	.	.	.	0.005	.	.	.	~40 mm Ø x ~15 mm
BS 90F	(0.006)	.	.	.	.	.	0.011	.	.	0.005	.	.	.	38 mm Ø x ~7 or 19+ mm
13X 14762A **	1.3	.	.	25	.	.	.	.	.	0.005	.	.	.	~40 mm Ø x ~15 mm
IMZ 155	(0.20)	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
CZ SL-1A	0.86	.	.	.	.	.	.	.	.	0.01	.	.	.	~39 mm Ø x 25 mm
IMZ 161	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
IARM 11D	0.015	(0.005)	0.0006	(20)	(30)	(5)	(0.004)	.	(0.001)	0.006	(0.003)	(0.004)	(0.001)	31 mm Ø x 2 or 18 mm
IARM 14C	0.0041	(0.003)	0.0005	(10)	(5)	(1)	(0.006)	(0.002)	(0.0001)	0.004	(0.002)	(0.0003)	(0.001)	38 mm Ø x 2 or 18 mm
BS 91F	0.0029	.	(0.0002)	12	.	.	(0.0076)	(0.0017)	.	0.0054	.	.	.	38 mm Ø x ~7 or 19+ mm
IMZ 163A	0.018	(0.0035)	.	.	.	(10)	.	.	.	(0.003)	.	.	.	40 mm Ø x 40 mm
BS 94C	0.004	.	.	.	.	.	0.0061	.	.	0.006	.	.	.	44 mm Ø x 19+ mm
<b>BS 0022</b>	0.078	0.003	0.0007	8	(5)	(6)	(0.002)	(0.0004)	.	0.004	.	<b>25 (pre-17025)</b>	.	38 mm Ø x ~7 or 19+ mm
13X 14775R	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
BS 150	0.002	.	.	.	.	.	0.012	.	.	(0.003)	.	.	.	35 mm Ø x ~7 or 19+ mm
NCS HS28748	.	0.0047	.	.	.	1	.	.	.	0.0063	.	.	.	38 mm Ø x 35 mm
13X 14418A **	0.002	.	.	.	.	.	.	.	.	0.005	.	.	.	~40 mm Ø x ~15 mm
BS 17-4PHB	.	.	0.0036	.	.	.	.	.	.	.	(0.002)	.	.	40 mm Ø x ~7 or 19+ mm
SRM C1296	0.035	.	.	.	.	.	.	.	.	.	.	.	.	32 mm Ø x 19 mm
SRM C2400	.	.	.	.	.	.	.	.	.	.	.	.	.	32 mm Ø x 19 mm
HRT FE2009-H	.	.	.	(10)	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
BS 9621	0.003	.	0.0004	(1)	.	.	.	.	.	0.003	(0.002)	.	.	38 mm Ø x ~7 or 19+ mm
ECRM 273-1	.	0.0030	.	.	.	.	.	.	.	0.0021	.	.	.	40 mm Ø x 20 mm
BS 185A	0.002	.	0.0017	(2)	.	.	(0.0021)	.	.	0.007	(0.002)	.	.	38 mm Ø x ~7 or 19+ mm
13X 32101A	0.0122													

## STAINLESS STEEL WITH C &gt; 0.05 %

CONTINUED ON THE NEXT PAGE

# = Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Co	Mo	N	Nb	Ti	V	W
1	KUT S24	0.65	0.94	0.062	0.036	0.76	0.12	9.19	10.28	.	0.41	.	1.65	0.27	.	.
1	VS LG76	0.445	0.342	0.021	0.0076	0.455	0.098	13.39	13.77	.	0.263	0.031	.	0.020	0.041	2.38
1	VS LG74	0.373	0.962	0.024	0.0049	2.49	0.093	23.66	18.30	0.031	0.104	0.030	.	0.030	.	0.052
1	KUT S21	0.37	0.19	0.017	0.021	1.26	0.11	22.3	3.99	.	4.12	.	.	0.50	.	.
2	CZ CM-19A	0.361	0.783	0.0440	0.0182	1.588	0.986	15.27	13.12	0.222	1.023	(0.021)	0.091	0.254	1.235	0.311
1	VS LG79	0.313	1.28	0.017	0.0036	0.703	0.065	8.72	19.23	.	1.18	.	0.47	.	0.049	1.16
2	CZ SP-3C	0.30	0.43	0.026	0.011	0.84	0.185	5.31	16.42	0.041	0.26	(0.04)	(0.04)	(0.17)	0.19	0.12
1	DSZU C016	0.281	3.26	0.0192	0.0174	1.16	0.054	7.47	21.9	.	0.52	0.010	.	0.72	0.036	0.014
3	CZ SP-3B	0.27	0.29	0.023	0.008	0.72	0.62	5.65	15.1	0.02	0.24	.	.	0.13	0.10	0.12
1	KUT S19	0.26	0.32	0.012	0.021	2.32	0.19	12.8	7.00	.	0.11	.	0.81	0.048	.	.
1	SRM C1153a	0.225	0.544	0.030	0.019	1.00	0.226	8.76	16.70	0.127	0.24	.	.	.	0.176	.
1	VS LG34/5	0.222	0.362	0.010	0.019	0.80	0.269	9.54	17.32	.	0.266	.	.	0.138	0.195	0.33
1	13X 18001B	0.207	0.463	0.0090	0.0786	0.203	0.149	6.13	15.92	0.0231	0.816	0.0347	0.612	.	0.0996	.
1	KUT H6/1	0.20	0.49	0.021	0.024	0.67	0.10	0.15	18.9	.	.	.	.	0.10	.	(0.12)
1	13X 12855M	0.182	1.162	0.0240	0.0233	1.10	0.446	10.80	17.13	0.226	2.86	.	.	0.061	.	0.201
2	CZ SP-3D	0.171	0.34	0.021	0.015	0.71	0.73	5.36	16.44	0.033	0.25	(0.04)	(0.04)	0.088	0.11	0.12
2	13X NSB1D	0.17	0.44	.	.	0.58	.	10.0	19.1	.	0.11	0.04	.	.	.	.
1	IARM 339A	0.16	1.71	0.004	0.009	0.64	0.021	12.9	17.0	0.007	2.79	0.0060	(0.005)	(0.002)	0.007	(0.0119)
2	13X NSA3J	0.15	1.07	.	.	0.57	.	12.0	16.1	.	2.8	0.20	.	.	.	.
1	13X 18002D	0.159	0.722	0.0245	0.0487	0.352	0.116	7.92	17.77	0.0514	0.209	0.072	1.531	.	0.0542	.
2	13X 12540L	0.15	0.44	.	.	1.05	.	5.17	27.88	.	0.54	.	.	.	.	.
2	CZ CM-18A	0.143	1.792	0.0182	0.0119	0.903	2.393	20.44	20.59	0.097	2.282	0.0848	.	.	0.113	0.097
1	SS 468/1	0.143	1.70	0.014	0.020	1.41	.	8.90	17.96	0.018	.	.	.	.	.	.
1	IARM 9D	0.143	0.57	0.033	0.028	0.38	0.11	0.200	12.51	0.0213	0.038	0.0225	0.0023	0.0016	0.022	(0.004)
1	SRM C1152a	0.142	0.95	0.023	0.0064	0.64	0.097	10.86	17.76	0.22	0.44	.	.	.	0.033	.
1	VS LG32/5	0.138	0.54	0.0057	0.039	0.185	0.019	7.10	19.75	.	0.110	.	.	0.92	0.317	0.205
1	13X NSA2H	0.132	1.014	0.0252	0.0275	0.739	0.259	10.08	17.82	.	2.013	0.131	0.155	.	0.139	.
1	IARM 289A	0.126	1.67	0.006	0.0019	0.58	0.016	7.12	17.0	0.054	(0.005)	0.0032	0.008	0.028	0.01	0.01
1	IARM 241D *	0.125	1.94	(0.003)	0.0021	0.99	0.24	9.0	18.1	0.022	(0.003)	(0.006)	(0.03)	0.018	0.034	(0.01)
1	DSZU C018	0.125	1.09	0.0268	0.0099	0.53	0.163	9.33	17.54	.	0.189	0.009	.	0.54	0.048	0.066
1	13X NSB3G	0.121	0.632	.	.	0.471	.	9.26	15.22	.	0.630	0.198	.	.	.	.
1	KUT H5	0.12	0.48	0.017	(0.003)	0.70	0.22	0.20	21.8	.	.	.	.	0.03	.	0.10
2	13X 17001B	0.114	1.73	0.080	0.016	0.34	0.037	6.05	14.89	0.15	0.12	0.040	0.76	.	.	.
1	13X 18003C	0.113	1.000	0.0545	0.0245	0.805	0.0433	10.08	19.56	0.100	0.401	0.090	1.042	.	0.0750	.
1	TRSID 1819	0.112	0.903	0.023	0.0112	0.616	0.064	7.10	17.31	0.117	0.110	0.0288	.	.	.	.
1	13X 17002E	0.112	0.801	0.0409	0.0250	0.486	0.1012	7.87	17.45	0.0702	0.204	0.061	0.487	.	0.0587	.
1	NCS HS28743	0.110	0.841	0.024	0.0082	0.780	0.089	18.02	23.71	0.102	0.115	0.057	0.016	(0.003)	0.077	.
1	IMZ 166A	0.108	1.99	0.019	0.005	2.51	0.025	21.93	25.53	0.030	(0.025)	0.077	.	0.003	0.038	.
1	VS LG81	0.104	0.29	0.0121	0.0014	0.231	0.088	22.5	11.51	.	1.22	.	0.004	2.93	0.040	0.012
1	VS LG77	0.101	0.34	0.0149	0.0021	0.44	0.116	4.32	15.67	.	0.020	0.054	0.109	.	0.022	0.006
1	IMZ 164	0.100	1.77	0.019	0.002	0.82	0.26	6.75	20.96	0.035	3.48	0.249	0.049	(0.003)	0.053	(0.025)
2	13X 17003A	0.10	0.85	0.037	0.035	0.78	0.08	11.9	11.89	0.07	0.27	.	0.34	.	.	.
1	VS LG73	0.098	1.26	0.019	0.0073	0.570	0.140	17.74	22.60	0.247	0.061	0.0319	.	0.002	.	0.102
1	KUT S20	0.097	1.50	0.011	0.025	1.80	0.44	18.2	2.06	.	3.15	.	1.22	(0.01)	.	.
1	VS LG80	0.097	0.709	0.025	0.0029	2.15	0.166	19.38	24.7	.	0.086	0.064	.	0.015	0.032	0.029
2	BS 253	0.094	0.58	0.018	<0.001	1.81	0.14	10.89	20.68	0.15	0.21	0.146	0.017	0.005	0.050	0.03
1	IARM 234C *	0.093	1.93	0.009	(0.003)	0.89	3.40	9.0	18.2	0.035	(0.01)	0.008	0.053	0.026	0.055	(0.01)
1	SS 462	0.092	0.74	0.010	0.018	0.46	.	12.53	12.37	.	.	.	.	.	.	.
1	13X 12537T	0.0889	1.116	0.0382	0.0206	1.151	0.248	10.71	20.43	0.1520	3.05	0.048	0.102	0.273	0.0908	.
1	DSZU C015	0.087	0.420	0.0118	0.059	0.214	0.070	12.15	15.36	.	0.89	0.020	.	0.177	0.021	0.023
1	SS 464/1	0.086	0.791	0.020	0.028	0.57	.	20.05	25.39	0.054	.	.	.	.	.	.
1	IMZ 165	0.082	0.98	0.017	0.007	1.42	0.040	19.01	23.28	0.029	0.025	0.105	.	(0.002)	0.042	.
1	SS 467/1	0.082	0.788	0.018	0.019	0.52	.	9.21	18.09	.	.	.	0.99	.	.	.
1	13X 17001C *	0.08	1.55	0.064	0.013	0.24	0.02	6.45	14.9	0.1	0.1	0.006	0.57	.	.	.
1	VS LG35/5	0.078	0.81	0.042	0.0094	1.01	0.066	8.23	18.44	.	0.39	.	.	0.73	0.041	0.107
#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Co	Mo	N	Nb	Ti	V	W
1	KUT S26	0.076	0.99	0.027	0.026	0.67	0.14	3.31	18.9	.	2.59	.	0.07	0.11	.	.
1	NCS HS41750	0.075	1.43	0.031	0.012	0.33	0.276	6.35	16.31	.	0.107	0.058	.	(0.001)	0.064	.
1	ECRM 270-1D	0.0742	0.540	0.0196	0.0007	1.517	0.1076	10.86	20.88	0.0685	0.2099	0.1417	.	(0.0019)	0.0256	(0.0244)
1	VS LG78	0.074	1.60	0.017	0.0017	0.58	0.053	35.4	14.71	.	0.061	0.0062	0.004	1.31	0.020	3.16
1	BS 192	0.074	0.835	0.025	0.0005	0.387	0.412	7.11	16.44	0.104	0.430	0.0290	0.168	0.076	0.124	0.05
2	BS 83G	0.073	1.66	0.024	0.004	0.56	0.114	19.15	24.50	0.153	0.085	0.026	0.061	(0.003)	0.077	0.007
1	VS LG72	0.072	1.32	.	0.0050	0.334	0.306	12.4	16.36	0.090	2.07	0.0073	.	0.57	.	0.077
1	13X 12534X	0.0716	0.589	0.0192	0.0086	0.811	0.0586	8.50	17.71	0.0602	2.04	.	0.201	0.348	0.110	0.010
1	IARM 316A	0.070	0.61	0.023	0.0011	1.50	0.19	10.81	21.07	0.118	0.250	0.16	(0.003)	(0.002)	0.042	0.022
2	13X NSA1E	0.07	0.42	.	.	0.4	.	7.9	20.3	.	2.47	0.040	.	.	.	.
1	VS LG63	0.068	0.356	0.010	0.0050	0.285	0.024	22.15	10.13	.	1.65	.	0.113	2.98	0.086	0.43
1	KUT S25	0.067	1.90	0.045	0.015	1.49	0.07	13.8	15.6	.	1.77	.	0.07	0.46	.	.
2	CT 305	0.067	1.85	0.025	0.022	0.55	0.29	11.95	18.58	0.22	0.45	.	.	.	0.078	.
1	SRM 1171	0.067	1.81	(0.019)	(0.013)	0.536	0.1205	11.18	17.50	(0.097)	0.167	.	.	0.346	.	(0.012)
1	BS 9841	0.067	1.69	0.024	0.024	0.54	0.356	19.55	24.30	0.116	0.57	0.064	0.070	(0.002)	0.070	0.06
1	NCS HS28744	0.067	1.10	0.028	0.021	0.435	0.166	10.39	16.80	0.063	2.01	0.063	0.027	(0.006)	0.048	.
1	SS 465/1	0.066	1.380	0.021	0.012	0.405	0.098	9.24	17.31	0.053	0.092	.	.	0.40	0.102	.
1	BS 192A	0.066	0.768	0.021	<0.002	0.300	0.334	7.01	16.44	0.114	0.28	0.029	0.208	0.083	0.030	0.048
1	IMZ 152	0.065	1.42	0.010	0.0025	0.52	0.061	9.48	18.04	.	0.017	.	.	.	.	.
1	VS LG71	0.064	1.33	0.032	0.0072	0.602	0.204	10.40	17.63	0.188	0.161	.	.	0.473	.	0.048
1	IARM 7C	0.064	1.32	0.014	0.0004	1.21	0.031	34.9	18.4	0.041	0.095	0.034	0.189	0.022	0.060	(0.02)
2	CT 304	0.063	0.78	0.026	0.023	0.56	0.34	9.60	18.57	0.20	0.33	.	0.043	.	0.037	.
2	BS 82E	0.062	1.61	0.027	0.001	0.58	0.26	12.49	22.38	0.12	0.31	0.072	0.062	0.003	0.064	0.041

STAINLESS STEEL WITH C &gt; 0.05 %

CONTINUED FROM THE PREVIOUS PAGE

Number	Al	As	B	Bi	Ca	Ce	O	Pb	Sb	Sn	Ta	Zr	Units
KUT S24	.	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 18 or 40 mm
VS LG76	0.034	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
VS LG74	0.035	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
KUT S21	.	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 18 or 40 mm
CZ CM-19A	0.0788	.	(0.091)	.	(0.0036)	.	.	.	.	0.0283	.	.	~37 mm Ø x ~25 mm
VS LG79	0.059	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
CZ SP-3C	0.095	(0.03)	1.67	.	.	.	.	.	.	(0.02)	.	.	~39 mm Ø x 25 mm
DSZU C016	0.007	.	.	.	0.0004	.	.	.	.	.	.	.	40 mm Ø x 25 mm
CZ SP-3B	0.08	.	0.88	.	.	.	.	.	.	0.01	.	.	~39 mm Ø x 25 mm
KUT S19	.	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 18 or 40 mm
SRM C1153a	.	.	.	.	.	.	.	0.006	.	.	.	.	32 mm Ø x 19 mm
VS LG34/5	0.029	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~25 mm
13X 18001B	0.0157	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
KUT H6/1	.	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 18 or 40 mm
13X 12855M	.	.	0.0099	0.015	.	.	.	.	0.210	.	0.050	.	~40 mm Ø x ~15 mm
CZ SP-3D	0.037	(0.03)	2.45	.	.	.	.	.	.	(0.04)	.	.	~39 mm Ø x 25 mm
13X NSB1D	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
IARM 339A	0.004	(0.001)	0.0006	.	0.0014	.	0.016	.	.	(0.002)	(0.005)	(0.003)	31 mm Ø x 2 or 18 mm
13X NSA3J	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
13X 18002D	0.0617	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
13X 12540L	.	.	.	.	.	.	.	.	.	.	.	.	last of stock
CZ CM-18A	0.0344	.	.	.	.	.	.	.	.	.	.	.	~37 mm Ø x ~25 mm
SS 468/1	.	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
IARM 9D	(0.003)	(0.003)	0.0005	.	(0.001)	.	0.0053	(0.0002)	.	0.006	0.004	(0.001)	31 mm Ø x 18 mm last
SRM C1152a	.	.	.	.	.	.	.	0.0047	.	.	.	.	32 mm Ø x 19 mm
VS LG32/5	0.156	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~25 mm
13X NSA2H	.	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
IARM 289A	0.01	.	0.0003	.	.	.	0.0104	.	.	(0.002)	<0.005	.	31 mm Ø x 2 or 18 mm
IARM 241D *	0.022	(0.001)	0.0011	* Provisional Analysis	.	.	(0.004)	(0.0004)	.	0.002	(0.004)	(0.007)	31 mm Ø x 2 or 18 mm
DSZU C018	0.086	.	.	.	0.0003	.	.	.	.	.	.	.	40 mm Ø x 25 mm
13X NSB3G	.	.	.	.	.	.	.	0.006	.	.	.	.	42 mm Ø x 15 mm
KUT H5	.	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 18 or 40 mm
13X 17001B	0.01	.	0.008	.	.	.	.	.	.	0.030	.	.	~40 mm Ø x ~15 mm last
13X 18003C	0.0292	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
IRSID 1819	.	.	(0.0004)	.	.	.	.	.	.	.	.	.	47 mm x 47 mm x 30 mm
13X 17002E	(0.030)	.	0.0012	.	.	.	.	.	.	.	(0.012)	.	~40 mm Ø x ~15 mm
NCS HS28743	0.0056	0.0042	.	.	.	.	.	0.0004	.	0.0025	.	.	38 mm Ø x 35 mm
IMZ 166A	0.036	(0.0026)	.	.	.	.	.	.	.	(0.0035)	.	.	40 mm Ø x 40 mm
VS LG81	0.409	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
VS LG77	.	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
IMZ 164	0.040	(0.005)	.	.	.	.	.	(0.002)	.	(0.003)	.	.	40 mm Ø x 40 mm
13X 17003A	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
VS LG73	.	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
KUT S20	.	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 18 or 40 mm
VS LG80	0.025	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
BS 253	0.016	0.005	.	.	.	.	0.044	.	.	0.006	25(pre-17025)	.	38 mm Ø x ~7 or 19+ mm
IARM 234C *	0.035	(0.002)	0.0022	* Provisional Analysis	(0.004)	.	.	.	.	(0.002)	(0.01)	(0.01)	31 mm Ø x 2 or 18 mm
SS 462	.	0.007	.	.	.	.	.	0.0005	.	.	.	.	38 mm Ø x 19 mm
13X 12537T	(0.062)	.	0.0029	.	.	.	.	.	.	0.0401	0.0194	.	~40 mm Ø x ~15 mm
DSZU C015	(0.008)	.	.	.	0.0017	.	.	.	.	.	.	.	40 mm Ø x 25 mm
SS 464/1	.	(0.003)	.	.	.	.	.	0.0004	.	.	.	.	38 mm Ø x 19 mm
IMZ 165	0.038	(0.003)	.	.	.	.	.	(0.001)	.	0.003	.	.	40 mm Ø x 40 mm
SS 467/1	.	0.004	.	.	.	.	.	0.004	.	.	0.0017	.	38 mm Ø x 19 mm
13X 17001C *	0.03	.	0.01	* Provisional Analysis	.	.	.	.	.	0.001	0.01	.	~40 mm Ø x ~15 mm
VS LG35/5	0.087	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~25 mm

  

Number	Al	As	B	Bi	Ca	Ce	O	Pb	Sb	Sn	Ta	Zr	Units
KUT S26	.	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 18 or 40 mm
NCS HS41750	0.009	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 35 mm
ECRM 270-1D	(0.0023)	(0.0034)	Ce: 0.0487	La: 0.0154	.	.	.	.	(0.0007)	(0.0035)	.	(0.002)	38 mm Ø x 25 mm
VS LG78	0.15	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
BS 192	1.17	(0.005)	(0.0003)	.	0.0007	.	0.0014	25(pre-17025)	.	0.008	(0.001)	.	38 mm Ø x ~7 or 19+ mm
BS 83G	(0.004)	.	(0.001)	.	.	.	0.0064	.	.	0.003	.	.	38 mm Ø x ~7 or 19+ mm
VS LG72	0.089	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
13X 12534X	0.0485	.	.	.	.	.	.	.	.	.	0.031	.	~40 mm Ø x ~15 mm
IARM 316A	0.006	0.007	(0.0003)	.	0.0017	0.064	0.0052	(0.0001)	.	0.006	(0.003)	.	31 mm Ø x 2 or 18 mm
13X NSA1E	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm last
VS LG63	0.45	.	.	.	.	.	.	.	.	.	.	.	~47 mm Ø x ~30 mm
KUT S25	.	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 18 or 40 mm
CT 305	.	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm
SRM 1171	.	.	.	.	.	.	.	.	.	.	.	.	31 mm Ø x 19 mm
BS 9841	<(0.006)	(0.003)	0.0026	25(pre-17025)	.	.	(0.011)	(0.001)	(0.006)	0.006	.	(0.002)	44 mm Ø x ~7 or 19+ mm
NCS HS28744	0.012	0.0037	0.0006	.	.	.	.	0.0005	.	0.0034	.	.	38 mm Ø x 35 mm
SS 465/1	0.026	.	.	.	.	.	.	<(0.001)	.	.	.	.	38 mm Ø x 19 mm
BS 192A	0.98	(0.0035)	(0.0003)	.	(0.0006)	.	(0.0006)	.	.	0.008	25(pre-17025)	.	38 mm Ø x ~7 or 19+ mm
IMZ 152	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
VS LG71	0.072	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
IARM 7C	0.017	.	0.0027	.	.	.	0.0021	(0.0001)	.	0.0020	(0.002)	(0.001)	31 mm Ø x 2 or 18 mm Mg:15ppm
CT 304	.	.	.	.	.	.	.	<0.001	.	0.017	.	.	30-35 mm Ø x 20-25 mm Ag: 7ppm
BS 82E	0.006	.	0.0024	.	0.0014	.	.	.	.	0.006	.	.	38 mm Ø x ~7 or 19+ mm
13X 31008A	.	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~15 mm
KUT H7/1	.	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 18 or 40 mm
BS 321A	0.038	(0.006)	(0.0005)	.	(0.0002)	.	0.0013	.	.	0.010	(0.002)	.	38 mm Ø x 19 mm last
CT 316	.	.	.	.	.	.	.	0.001	.	0.006	.	.	30-35 mm Ø x 20-25 mm Ag: 5ppm
VS LG36/5	0.080	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~25 mm
CT X52353	.	.	.	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm last
13X NSB2D	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
13X 17004A	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm last
BS 9842	0.014	(0.002)	0.0025	.	0.0010	.	(0.0044)	.	.	0.005	25(pre-17025)	.	38 mm Ø x ~7 or 19+ mm
BS 82D	(0.002)	.	0.0040	.	0.0007	.	0.007	.	.	0.004	.	.	38 mm Ø x ~7, 11, or ~15 mm
13X 30908A	0.0035	.	0.0027	.	(0.0005)	.	.	.	.	.	.	.	~38 mm Ø x ~15 mm
SRM 1172	.	.	.	.	.	.	.	.	.	.	<0.001	.	32 mm Ø x 19 mm
BS 83D	0.004	.	(0.0003)	.	(0.0003)	.	0.0069	.	.	0.006	.	.	38 mm Ø x ~12 mm last of stock
VS LG82	0.076	.	.	.	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
BS 87F	0.004	0.005	(0.0006)	.	0.0007	.	0.005	.	.	0.004	.	.	41 mm Ø x ~7 or 19+ mm
IARM 3E *	(0.004)	(0.004)	0.0004	* Provisional Analysis	.	.	0.0046	(0.0005)	.	0.008	(0.005)	(0.002)	31 mm Ø x 2 or 18 mm
13X 19001B	.	.	.	.	.	.	.	.	.	.	(0.019)	.	40 mm Ø x 15 mm
BS 86F	(0.007)	(0.003)	0.0026	.	(0.001)	.	.	(0.001)	.	0.004	.	.	44 mm Ø x ~7 or 19+ mm
DSZU C017	0.28	.	.	.	0.0031	.	.	.	.	.	.	.	40 mm Ø x 25 mm
13X 12854L	.	.	0.0076	.	.	.	.	.	.	.	(0.06)	.	40 mm Ø x 15 mm
IARM 2H *	(0.004)	(0.008)	0.0004	* Provisional Analysis	(0.0005)	.	(0.006)	.	(0.002)	0.011	(0.007)	(0.004)	31 mm Ø x 2 or 18 mm
BS 347B	0.002	(0.003)	0.0036	.	.	.	0.005	.	.	0.006	<(0.004)	.	38 mm Ø x ~7 or 19+ mm
BS 347A	(0.002)	(0.003)	(0.0004)	.	(0.0002)	.	0.0047	.	.	0.007	<(0.004)	.	38 mm Ø x ~7 or 19+ mm
BS 188A	0.19	.	0.0065	.	.	.	0.0012	<0.001	.	0.002	.	.	38 mm Ø x 12 mm last of stock

Number	Al	As	B	Bi	Ca	Ce	O	Pb	Sb	Sn	Ta	Zr	Units
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## STAINLESS STEEL WITH C &lt; 0.05 %

## CONTINUED ON THE NEXT PAGE

# = Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties analysis listed in mass %

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Co	Mo	N	Nb	Ti	V	W
1	ECRM 269-1D	0.0499	1.262	0.0313	0.0010	0.441	0.366	8.044	18.150	0.1116	0.397	0.0460	0.0242	0.0006	0.0991	0.0306
2	BS 851	0.049	1.69	0.025	0.024	0.55	0.45	10.03	17.09	0.97	0.59	0.016	0.065	0.48	0.134	0.06
1	IARM 51 *	0.049	1.44	0.028	0.033	0.435	0.487	10.04	16.67	0.185	2.027	0.048	0.013	0.002	0.064	0.185
1	ECRM 289-1D	0.0489	1.016	0.0114	0.0027	0.531	0.489	24.68	16.63	0.065	1.102	.	.	2.01	0.260	.
1	IMZ 150A	0.048	1.35	0.0064	0.0095	0.59	0.090	12.75	18.89	0.125	0.12	.	0.0026	0.021	(0.027)	0.11
1	IARM 5H *	0.047	1.46	0.030	0.030	0.405	0.46	10.05	16.86	0.250	2.03	0.051	0.016	(0.003)	0.068	0.081
1	13X 32100A	0.0463	1.52	0.0298	0.0011	0.498	0.415	9.32	17.39	0.105	0.282	0.0115	0.0191	0.376	0.106	0.021
1	BS 188B	0.046	0.247	0.016	(0.0007)	0.266	0.120	24.81	14.32	0.274	1.30	0.0021	0.099	2.20	0.264	0.043
1	BS 303	0.044	1.80	0.028	0.326	0.415	0.627	8.17	17.23	0.071	0.410	0.023	0.008	0.017	0.056	0.023
1	IARM 4E	0.044	1.07	0.0224	0.0006	0.514	0.234	20.18	24.25	0.066	0.32	0.038	0.024	(0.003)	0.052	0.046
3	CZ SL-3A	0.043	1.73	0.024	0.002	0.53	0.22	19.6	24.6	0.06	0.38	0.065	0.013	0.003	0.066	0.03
1	KUT S15	0.043	0.38	(0.02)	0.013	0.26	1.54	3.90	16.7	.	2.46	.	0.64	.	.	.
1	13X 14216P	0.0424	0.663	0.0048	0.0070	1.566	0.231	12.06	23.44	0.248	0.209	0.0152	0.248	.	0.0722	2.25
1	IARM 8G *	0.042	1.47	0.033	0.012	0.37	0.39	9.01	17.20	0.16	0.36	0.046	0.53	(0.002)	0.062	0.032
1	VS LG70	0.042	0.834	0.042	0.0020	0.382	0.062	9.17	17.10	0.209	0.096	0.0134	.	0.305	.	0.0053
1	BS 316C	0.0415	1.75	0.035	0.0146	0.42	0.076	10.31	16.42	0.172	2.26	0.062	(0.005)	(0.001)	0.031	0.0032
1	NILAB 5000A D	0.041	1.541	0.024	0.012	0.720	0.182	11.00	16.93	0.139	2.73	0.1154	0.023	.	0.074	.
1	13X 12538J	0.04	0.78	.	0.64	0.67	6.07	23.72	.	1.53	.	.	.	.	.	.
1	NCS HS41751	0.039	1.81	0.035	0.200	0.353	0.124	8.12	17.22	.	0.044	0.064	.	(0.001)	0.121	.
1	NCS HS28741	0.039	1.07	0.037	0.016	0.425	0.399	8.19	18.31	0.208	0.027	0.069	.	(0.002)	0.106	.
2	BS 321C	0.037	1.72	0.025	0.022	0.58	0.28	10.58	17.16	0.048	0.30	0.0082	0.008	0.38	0.079	(0.03)
1	IRSID 1821	0.037	1.72	(0.025)	(0.004)	0.542	0.058	10.42	17.04	0.266	2.04	0.0125	0.297	.	.	.
1	ECRM 292-1D	0.0367	1.744	0.0175	0.0055	0.402	0.391	10.09	18.00	0.0255	0.0464	0.0640	0.571	.	.	.
1	13X 66286A	0.036	1.172	0.0173	(0.0006)	0.216	0.195	25.21	18.00	0.083	1.190	0.0040	.	1.92	0.264	0.098
2	BS 184A	0.035	0.06	0.007	0.001	0.080	0.041	8.34	12.66	0.036	2.20	0.0045	(0.006)	0.051	0.014	0.032
1	IARM 21C	0.035	0.051	0.007	0.0038	0.042	0.047	8.18	12.39	0.021	2.11	0.0045	0.007	0.012	0.013	(0.01)
1	SS 462/1	0.0345	0.722	0.0053	0.0041	0.463	0.0112	12.85	11.888	.	0.0304	.	.	.	.	.
1	SRM C1151a	0.034	2.37	0.017	0.038	0.29	0.385	7.25	22.59	0.033	0.79	.	.	.	0.040	.
1	BS 9812	0.031	0.485	0.018	(0.004)	0.43	1.65	6.61	14.82	0.110	0.76	0.0195	0.645	(0.005)	0.088	0.025
2	HRT FE2014-H	0.027	1.91	0.023	(0.002)	0.39	0.25	9.92	17.16	.	0.41	(0.018)	.	0.31	.	.
2	BS 317L	0.027	1.17	0.029	0.0014	0.67	0.23	13.53	18.16	0.14	3.07	0.056	0.031	.	0.09	0.018
1	VS LG75	0.027	0.728	0.0046	0.0026	0.298	0.029	24.5	14.80	0.090	0.052	0.0044	.	1.76	0.042	4.14
1	BS 9811	0.027	1.389	0.016	0.0010	0.36	1.63	6.55	14.87	0.055	0.744	0.0196	0.62	(0.003)	0.086	0.013
1	SRM I155a	0.0260	1.593	0.0271	(0.0020)	0.521	0.2431	12.471	17.803	0.225	2.188	(0.0428)	0.0082	0.0039	0.0725	0.0809
2	HRT FE2013-H	0.026	0.61	0.022	0.005	0.38	0.13	6.20	25.71	.	3.63	0.28	.	.	0.05	.

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Co	Mo	N	Nb	Ti	V	W
1	13X 32900A	0.0251	1.478	0.0276	0.0269	0.556	0.354	5.57	24.91	0.0724	1.310	0.097	.	0.0139	0.0938	0.017
1	13X 31603A	0.0242	1.78	0.0284	0.0246	0.332	0.322	10.17	16.83	0.0571	1.98	0.080	0.0078	.	0.093	0.0444
1	13X NSA8A	0.0240	0.656	0.0216	0.0008	(0.40)	0.903	6.29	25.93	0.0374	3.60	0.239	(0.004)	.	0.060	0.586
1	IARM 162D *	0.024	1.82	0.030	0.027	0.57	0.52	8.16	18.31	0.075	0.57	0.097	0.009	0.012	0.068	0.026
1	IARM 153C *	0.023	1.60	0.029	0.029	0.35	0.446	11.1	18.22	0.25	3.0	0.085	0.014	(0.003)	0.058	0.045
1	ECRM 297-1D	0.0223	0.897	0.0137	0.0101	0.344	0.204	12.33	18.37	0.0413	0.290	0.0152	(0.0089)	0.0072	0.0535	(0.0057)
1	NCS HS28746	0.021	1.87	0.031	0.0009	0.510	0.340	8.24	17.19	0.191	0.069	0.011	.	0.184	0.096	.
1	BS 9942	0.021	1.84	0.025	0.006	0.49	0.305	13.55	18.21	0.086	3.30	0.071	0.005	(0.002)	0.072	0.032
1	BS 9941	0.021	1.78	0.027	0.024	0.33	0.424	13.68	18.48	0.178	3.24	0.036	0.015	(0.002)	0.062	0.068
1	IRSID 1820	0.021	1.61	(0.021)	0.0079	0.428	0.045	9.07	19.51	0.151	0.115	0.064	.	.	.	.
1	NCS HS28742	0.021	0.940	0.034	0.0028	0.414	0.043	8.11	18.2	0.216	0.025	0.059	.	0.006	0.089	.
1	IARM 301B *	0.021	0.81	0.026	0.0008	0.42	0.19	7.01	25.1	0.055	3.75	0.30	0.020	(0.005)	0.070	0.053
1	13X 30403A	0.0200	1.495	0.029	0.025	0.288	0.217	7.93	18.27	0.101	0.193	0.081	(0.019)	.	0.113	0.018
1	13X NSA9A	0.020	1.593	0.0246	(0.0008)	0.476	0.242	5.46	22.59	0.071	3.10	0.156	0.012	.	0.070	(0.024)
1	SS 463/1	0.019	1.400	0.025	0.019	0.270	0.276	10.20	18.46	0.116	0.265	0.063	.	.	.	.
1	BS 2205	0.0199	1.029	0.0227	0.0005	0.564	0.196	5.27	22.92	0.041	3.26	0.169	0.0052	0.0019	0.0560	0.0309
1	13X NSAI2A	0.0192	1.272	0.0267	0.0007	0.492	1.485	24.84	19.63	0.090	4.20	0.0662	0.0088	.	0.0660	0.047
1	BS 304A	0.019	1.706	0.0402	0.0188	0.56	0.548	8.20	18.17	0.126	0.28	0.072	0.014	(0.0005)	0.067	0.042
1	IARM 212D	0.019	1.21	0.024	0.0007	0.34	0.125	5.53	22.60	0.049	3.27	0.182	(0.009)	(0.002)	0.063	0.014
1	BS 316D	0.0185	1.400	0.0294	0.0189	0.278	0.409	10.38	16.76	0.294	2.05	0.042	0.0277	(0.002)	0.074	0.072
1	BS 316E	0.0183	1.413	0.0295	0.0214	0.268	0.408	10.43	16.70	0.287	2.06	0.042	0.0282	(0.002)	0.074	0.067
1	IARM 162C	0.0181	1.45	0.032	0.024	0.25	0.44	8.68	18.07	0.158	0.34	0.074	0.011	0.0012	0.076	0.043
1	13X FV520BA	0.0181	0.655	0.0221	0.0016	0.342	1.462	5.29	13.73	0.030	1.334	0.0197	0.301	.	0.080	0.020
2	HRT FE2000-H	0.018	2.02	0.022	(0.003)	0.36	0.15	5.98	22.15	0.048	3.27	0.20	0.010	0.005	0.042	0.063
1	BS 304	0.018	1.775	0.039	0.0214	0.451	0.474	8.20	18.01	0.153	0.237	0.063	0.0054	(0.0004)	0.087	0.040
1	BS 304B *	0.018	1.71	0.024	0.024	0.54	0.26	8.7	18.3	0.22	0.42	0.079	0.083	0.003	0.097	0.017
1	VS LG33/5	0.018	1.32	0.025	0.016	0.44	0.167	10.40	16.26	.	0.045	.	.	0.21	0.101	0.158
1	NCS HS28745	0.018	1.17	0.042	0.0057	0.317	0.334	10.34	16.61	0.185	2.05	0.070	.	(0.002)	0.070	.
1	13X 31603B	0.0167	1.898	0.0262	0.0210	0.325	0.350	10.07	16.89	0.133	2.04	0.082	0.0099	(0.001)	0.101	0.063
1	BS 179C	0.0164	0.878	0.0236	0.0003	0.373	1.53	6.10	25.9	0.0386	3.34	0.236	0.009	(0.0005)	0.080	0.056
1	BS 179B	0.0161	0.890	0.0243	0.0002	0.371	1.56	6.17	25.9	0.0394	3.34	0.239	0.008	(0.0008)	0.079	0.053
1	ECRM 287-1D	0.016	1.48	0.027	0.0014	0.569	0.203	10.35	18.61	0.148	0.247	0.019	.	.	.	.
1	13X 34700A	0.016	1.290	0.028	(0.0006)	0.483	0.163	9.38	17.19	0.131	0.393	0.0166	0.330	.	0.123	0.146
1	13X NSAI1A	0.0159	0.640	0.0186	<0.001	0.275	0.187	23.89	20.18	0.0981	6.16	0.203	0.150	.	0.0513	0.038
3	CZ SL-2A	0.015	1.84	0.025	0.027	0.64	0.50	11.0	16.9	0.09	2.03	0.04	.	0.06	0.075	0.03
1	IARM 319A *	0.015	0.53	0.023	0.0006	0.23	0.51	6.9	25.1	0.050	3.56	0.239	0.006	(0.003)	0.077	0.53
1	ECRM 298-1D	0.0146	0.398	0.0198	0.0006	0.262	0.201	7.056	24.72	0.055	3.799	0.26				

## STAINLESS STEEL WITH C &lt; 0.05 %

## CONTINUED FROM THE PREVIOUS PAGE

analysis listed in mass %

Number	Al	As	B	Ca	O	Pb	Sb	Sn	Ta	Units
ECRM 269-1D	.	0.0061	.	.	.	.	.	0.0099	.	35 mm Ø x 25 mm
BS 85D	0.13	0.006	0.0006	0.0004	0.0014	0.0004	0.001	(0.006)	.	38 mm Ø x 19+ mm
IARM 51 *	(0.004)	(0.006)	0.0006	(0.0002)	0.0059	.	(0.002)	0.0080	(0.006)	31 mm Ø x 2 or 18 mm * Provisional Analysis
ECRM 269-1D	0.199	.	0.0044	.	.	.	.	0.111	.	38 mm Ø x 30 mm
IMZ 150A	0.022	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
IARM 5H *	(0.004)	(0.007)	0.0009	<0.002	(0.006)	.	(0.002)	0.011	(0.003)	31 mm Ø x 2 mm * Provisional Analysis
13X 32100A	0.0247	.	0.0025	.	.	.	.	0.0115	.	~38 mm Ø x ~15 mm
BS 188B	0.168	0.0045	0.0047	(0.00003)	0.0006	(0.0001)	(0.0006)	0.0051	.	38 mm Ø x ~7 or 19+ mm Fe: 55.8 17025
BS 303	0.0019	.	0.0013	(0.0015)	0.0058	.	(0.002)	0.0091	.	44 mm Ø x ~7 or 19+ mm 17025 Fe:[70.7]
IARM 4E	0.004	(0.005)	0.0011	.	0.0021	.	.	0.0060	0.005	31 mm Ø x 2 or 18 mm
CZ SL-3A	0.007	.	0.002	.	.	.	.	0.006	.	~39 mm Ø x 25 mm
KUT S15	.	.	.	.	.	.	.	.	.	30-35 mm Ø x 18 or 40 mm
13X 14216P	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
IARM 8G *	0.0026	(0.007)	0.001	<0.0005	0.0023	<0.0005	(0.01)	0.011	(0.005)	31 mm Ø x 2 or 18 mm * Provisional Analysis
VS LG70	0.029	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
BS 316C	(0.004)	0.0054	(0.0003)	(0.0003)	0.0055	(0.001)	0.0014	0.0052	(0.01)	38 mm Ø x ~7 mm 17025 Fe:[68.4] last
NILAB 500HA D	.	.	.	.	.	.	.	.	.	38 mm Ø x 20 mm
13X 12538J	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
NCS HS41751	(0.004)	.	.	.	.	(0.001)	.	.	.	38 mm Ø x 35 mm
NCS HS28741	.	0.0035	.	.	.	0.0001	.	0.0051	.	38 mm Ø x 35 mm
BS 321C	0.044	(0.004)	(0.0005)	(0.0001)	(0.0011)	.	.	0.006	.	38 mm Ø x ~7 or 19+ mm
IRSID 1821	.	.	.	.	.	.	.	.	.	47 mm x 47 mm x 30 mm
ECRM 292-1D	(0.002)	(0.008)	.	(0.0006)	.	.	.	.	(0.001)	38 mm Ø x 25 or 30 mm
13X 66286A	0.193	.	0.0044	.	.	.	.	.	.	~40 mm Ø x ~15 mm
BS 184A	1.00	.	(0.0004)	(0.0003)	(0.0003)	.	.	(0.002)	(0.002)	38 mm Ø x ~7 or 19+ mm
IARM 21C	1.07	.	0.0004	.	0.0004	.	.	0.005	(0.002)	31 mm Ø x 2 or 18 mm
SS 462/1	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
SRM C1151a	.	.	.	.	.	0.0039	.	.	.	32 mm Ø x 19 mm
BS 9812	(0.002)	(0.005)	(0.0003)	0.0012	(0.007)	.	.	0.004	.	50 mm Ø x ~7 or 19+ mm 25(pre-17025)
HRT FE2014-H	.	.	.	.	.	.	.	.	.	35mm Ø x 20 mm
BS 317L	(0.005)	(0.003)	0.0013	(0.001)	0.007	.	.	0.005	.	37 mm Ø x ~7 or 19+ mm
VS LG75	0.113	.	.	.	.	.	.	.	.	~45 mm Ø x ~28 mm
BS 9811	(0.003)	(0.003)	(0.0003)	0.0014	(0.0060)	.	.	0.004	.	38 mm Ø x ~7 or 19+ mm 25(pre-17025)
SRM 1155a	<0.01	(0.007)	(0.002)	.	(0.003)	<0.005	.	(0.0069)	.	32 mm Ø x 19 mm
HRT FE2013-H	.	.	.	.	.	.	.	.	.	40 mm Ø x 20 mm
Number	Al	As	B	Ca	O	Pb	Sb	Sn	Ta	Units
13X 32900A	0.007	.	0.0028	0.0033	.	.	.	.	.	~40 mm Ø x ~15 mm
13X 31603A	0.00098	.	0.0011	(0.003)	.	.	.	0.0045	.	~40 mm Ø x ~15 mm
13X NSA8A	.	.	.	.	.	.	.	.	.	~44 mm Ø x ~15 mm
IARM 162D *	(0.003)	<0.008	0.0026	<0.002	(0.005)	.	<0.002	0.011	(0.01)	31 mm Ø x 2 or 18 mm * Provisional Analysis
IARM 153C *	(0.003)	(0.006)	0.0007	(0.003)	(0.005)	(0.001)	(0.001)	0.010	(0.01)	31 mm Ø x 2 or 18 mm * Provisional Analysis
ECRM 297-1D	0.0195	0.0040	1.146	(0.0002)	.	.	.	.	.	40 mm Ø x 30 mm
NCS HS28746	0.086	0.0032	.	.	.	0.0002	.	0.0065	.	38 mm Ø x 35 mm
BS 9942	0.004	(0.004)	0.0014	0.0014	(0.0023)	.	.	0.006	.	44 mm Ø x ~7 or 19+ mm 25(pre-17025)
BS 9941	0.004	(0.010)	0.0025	(0.0003)	(0.0058)	.	.	0.007	.	38 mm Ø x ~7 or 19+ mm 25(pre-17025)
IRSID 1820	.	.	(0.0013)	.	.	.	.	.	.	47 mm x 47 mm x 30 mm
NCS HS28742	.	0.0025	.	.	.	0.0001	.	(0.0001)	.	38 mm Ø x 35 mm
IARM 301B *	(0.006)	<0.004	0.003	<0.001	0.007	<0.005	<0.001	(0.005)	(0.003)	31 mm Ø x 2 or 18 mm * Provisional Analysis
13X 30403A	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
13X NSA9A	.	.	.	.	.	.	.	.	.	40 mm Ø x ~15 mm
SS 463/1	.	.	0.0022	.	.	.	.	.	.	38 mm Ø x 19 mm
BS 2205	0.0080	0.0059	0.0016	0.0014	0.0034	(0.0001)	0.0010	0.0050	17025	38 mm Ø x ~7 or 19+ mm Fe:[67.0] Mg:(0.0004) Zr:(0.006)
13X NSA12A	0.0169	.	0.0020	.	.	.	.	.	.	~40 mm Ø x ~15 mm
BS 304A	0.0028	(0.007)	(0.0005)	.	0.0061	(0.0001)	(0.002)	0.0096	.	38 mm Ø x ~7 or 19+ mm 17025 Fe:[70.1]
IARM 212D	(0.005)	(0.01)	0.001	(0.001)	0.0034	(0.001)	.	(0.003)	(0.003)	31 mm Ø x 2 mm
BS 316D	(0.002)	0.0048	0.0038	(0.0008)	0.0039	(0.0003)	(0.002)	0.0080	.	38 mm Ø x ~7 or 19+ mm 17025 Fe: 68.1
BS 316E	0.0027	0.0045	0.0036	(0.0006)	0.0039	(0.0002)	(0.002)	0.0082	.	38 mm Ø x ~7 or 19+ mm 17025 Fe: 68.1
IARM 162C	0.004	(0.006)	(0.001)	(0.001)	0.005	(0.001)	.	0.011	last	31 mm Ø x 18 mm
13X FV520BA	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
HRT FE2000-H	.	.	0.0013	.	.	.	.	.	.	40 mm Ø x 20 mm
BS 304	0.0022	(0.005)	(0.0005)	(0.001)	0.0083	(0.0003)	(0.002)	0.0116	.	38 mm Ø x ~7 or 19+ mm 17025 Fe:[70.5]
BS 304B *	0.003	0.005	0.0005	0.0009	0.003	<0.005	.	0.006	.	38 mm Ø x ~7 or 19+ mm * Provisional Analysis
VS LG33/5	0.024	.	.	.	.	.	.	.	.	~38 mm Ø x ~25 mm
NCS HS28745	.	0.0055	.	.	.	0.0001	.	0.0073	.	38 mm Ø x 35 mm
13X 31603B	0.009	.	.	0.0022	.	.	.	0.0057	.	~30 mm Ø x ~20 mm
BS 179C	0.0078	0.0034	0.0015	(0.0003)	0.0038	(0.00002)	0.0005	0.0018	(0.0006)	38 mm Ø x ~7 or 19+ mm 17025 Fe:[61.6]
BS 179B	0.0070	0.0036	0.0015	(0.0004)	0.0037	(0.00002)	0.0005	0.0019	(0.0006)	38 mm Ø x ~7 or 19+ mm 17025 Fe:[61.5]
ECRM 287-1D	.	.	0.924	.	.	.	.	.	.	38 mm Ø x 25 or 30 mm
13X 34700A	0.023	.	0.0008	.	.	.	.	.	.	~38 mm Ø x ~15 mm
13X NSA11A	(0.021)	.	.	.	.	.	.	.	.	~38 mm Ø x ~15 mm
CZ SL-2A	0.005	0.008	0.002	.	.	.	.	0.01	.	~39 mm Ø x 25 mm
IARM 319A *	0.011	(0.005)	(0.002)	.	(0.003)	.	.	0.005	(0.003)	31 mm Ø x 2 mm * Provisional Analysis
ECRM 298-1D	0.0285	.	0.0021	.	.	0.00008	.	.	.	38 mm Ø x 25 mm Fe: 63.38
SS 466/2	0.0018	0.0020	0.0039	.	.	.	.	.	.	38 mm Ø x 19 mm
BS SS3951	0.002	.	(0.0006)	0.0005	0.0075	.	.	0.007	.	41 mm Ø x ~7 or 19+ mm
IARM 163E *	0.0039	(0.008)	0.0019	(0.002)	0.007	.	(0.002)	0.012	.	31 mm Ø x 2 or 18 mm * Provisional Analysis
HRT FE2016-H	.	.	.	.	.	.	.	.	.	30 mm Ø x 20 mm
SS 461/1	0.069	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
BS SSI961	0.067	0.004	0.0022	.	(0.002)	.	.	0.004	.	38 mm Ø x 12 mm last
BS SSI962	0.062	0.002	0.0018	.	(0.001)	.	.	0.004	.	38 mm Ø x ~7 or 19+ mm
CT ISO123A	0.027	.	0.0021	.	.	.	.	.	.	30-35 mm Ø x 20-25 mm Fe: 74.72
ECRM 284-3D	.	0.00131	0.00020	.	.	.	.	0.00074	.	39 mm Ø x 28 mm
Number	Al	As	B	Ca	O	Pb	Sb	Sn	Ta	Units

STAINLESS STEEL XRF SETS

AVAILABLE IN SETS OR INDIVIDUALLY

-7 mm discs

Grade	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Co	Mo	N	Nb	V	W
<b>SET BS SS-17</b>															
15-5PH	BS 185A	0.033	0.49	0.022	0.002	0.38	3.41	4.43	14.46	0.026	0.30	0.027	0.32	0.048	(0.014)
17-4PH	BS 17-4PHA	0.018	0.85	0.023	0.022	0.40	3.30	4.69	15.40	0.072	0.34	0.022	0.204	0.043	
17-7PH	BS 192	0.075	0.84	0.025	0.001	0.38	0.41	7.10	16.42	0.104	0.42	0.029	0.17	0.13	0.04
253 MA	BS 253	0.094	0.58	0.018	<0.001	1.81	0.14	10.89	20.68	0.15	0.21	0.146	0.017	0.050	0.03
255	<b>BS 179C</b>	0.0164	0.878	0.0236	0.0003	0.373	1.53	6.10	25.9	0.0386	3.34	0.236	0.009	0.080	0.056
<b>2205 (318)</b>															
	<b>BS 2205</b>	0.0199	1.029	0.0227	0.0005	0.564	0.196	5.27	22.92	0.041	3.26	0.169	0.0052	0.0560	0.0309
303	<b>BS 303</b>	0.044	1.80	0.028	0.326	0.415	0.627	8.17	17.23	0.071	0.410	0.023	0.008	0.056	0.023
304 L	BS 81F	0.026	1.35	0.023	0.012	0.36	0.19	10.06	18.15	0.21	0.41	0.069		0.078	0.037
309	BS 82D	0.058	1.85	0.020	0.009	0.63	0.16	14.12	22.40	0.042	0.144	0.070	0.053	0.087	0.028
310	BS 83G	0.073	1.66	0.024	0.004	0.56	0.114	19.15	24.50	0.153	0.085	0.026	0.061	0.077	0.007
<b>316</b>															
	<b>BS 316C</b>	0.0415	1.75	0.035	0.0146	0.42	0.076	10.31	16.42	0.172	2.26	0.062	(0.005)	0.031	0.0032
317 L	BS 317L	0.027	1.17	0.029	0.0014	0.67	0.23	13.53	18.16	0.14	3.07	0.056	0.031	0.09	0.018
321	BS 85D	0.049	1.69	0.025	0.024	0.55	0.45	10.03	17.09	0.97	0.59	0.016	0.065	0.134	0.06
330	BS 86F	0.054	1.30	0.021	0.0011	1.22	0.23	34.99	18.74	0.098	0.24	0.035	0.19	0.061	(0.03)
347	BS 347A	0.051	1.50	0.026	0.020	0.54	0.31	9.20	17.44	0.054	0.326	0.044	0.79	0.10	(0.03)
<b>PH13-8 Mo</b>															
	BS 355	0.136	0.862	0.0171	0.0003	0.374	0.173	4.18	15.43	0.053	2.73	0.081	0.0103	0.106	0.0069
	BS 184A	0.035	0.06	0.007	0.001	0.080	0.041	8.34	12.66	0.036	2.20	0.0045	(0.006)	0.014	0.032
<b>SET BS 400-SS-16</b>															
182PM	BS 150	0.048	1.71	0.020	0.33	0.43	0.042	0.19	18.61	0.024	1.97	0.029	0.003	0.054	0.01
410	BS 410C	0.131	0.381	0.0206	0.0051	0.366	0.084	0.352	12.78	0.0185	0.055	0.039	0.0056	0.0006	0.0131
416	BS 90F	0.085	0.53	0.023	0.328	0.58	0.12	0.30	13.01	0.021	0.14	0.037	0.011	0.076	0.032
416 Se	BS 151	0.090	0.41	0.021	0.018	0.65	0.11	0.24	13.19	0.018	0.088	0.022	0.005	0.046	0.010
420	BS 98	0.309	0.48	0.019	0.0014	0.72	0.098	0.21	13.35	0.020	0.034	0.0181	0.003	0.075	0.009
<b>420F</b>															
	BS 152	0.32	0.36	0.022	0.275	0.44	0.050	0.14	13.41	0.015	0.061	0.020	0.006	0.051	<0.01
422	BS 97	0.216	0.71	0.021	0.0004	0.39	0.066	0.76	11.82	0.041	1.05	0.030	0.007	0.21	0.95
430	BS 91E	0.066	0.42	0.017	0.002	0.52	0.05	0.17	16.58	0.02	0.035	0.032	(0.004)	0.09	0.01
430F	BS 153	0.026	0.41	0.018	0.280	0.53	0.052	0.140	17.38	0.017	0.30	0.021	0.002	0.045	(0.002)
431	BS 92B	0.150	0.42	0.021	0.003	0.42	0.13	2.12	15.92	0.04	0.17	0.073	(0.006)	0.07	0.02
<b>440C</b>															
	BS 93E	1.02	0.52	0.022	0.0010	0.90	0.12	0.35	17.33	0.048	0.50	0.0359	0.005	0.24	0.11
440F	BS 155	1.00	0.35	0.014	0.145	0.40	0.035	0.13	16.64	0.019	0.46	0.032	0.002	0.10	
440F Se	BS 156	1.06	1.15	0.022	0.007	0.47	0.09	0.35	16.87	0.047	0.50	0.041	0.005	0.13	0.11
446	BS 94C	0.057	0.45	0.024	0.002	0.62	0.056	0.43	25.90	0.042	0.20	0.065	0.032	0.12	(0.03)
450	BS 95A	0.035	0.58	0.026	0.004	0.46	1.50	6.42	14.72	0.081	0.73	0.0255	0.55	0.052	0.02
455	BS 96A	0.009	0.04	0.007	0.004	0.06	2.07	8.38	11.62	0.03	0.021	.	0.26	0.07	.

Grade	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Co	Mo	N	Nb	V	W
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Number	Al	B	Ca	Se	Sn	Ti
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**SET BS SS-17**

BS 185A	0.002	0.0017	(0.0002)	.	0.007	(0.001)									
BS 17-4PHA		0.0016		.											
BS 192	1.15	(0.0004)	0.0007	.	0.009	0.078									
BS 253	0.016	.	.	.	0.006	0.005			Ce: 0.044	As: 0.005					
<b>BS 179C</b>	0.0078	0.0015	(0.0003)	.	0.0018	(0.0005)			As: 0.0034	O: 0.0038	Sb: 0.0005		<b>17025</b>		
<b>BS 2205</b>	0.0080	0.0016	0.0014	.	0.0050	0.0019			As: 0.0059	Fe:[67.0]	O: 0.0034	Sb:0.0010	<b>17025</b>		
<b>BS 303</b>	0.0019	0.0013	(0.0015)	.	0.0091	0.017			O: 0.0058	<b>17025</b>					
BS 81F	(0.003)	0.0026	(0.0004)	.	0.007	0.003			O:(0.0064)						
BS 82D	(0.002)	0.0040	0.0007	.	0.004	0.005									
BS 83G	(0.004)	(0.001)	O:0.0064	.	0.003	(0.003)									
<b>BS 316C</b>															
	(0.004)	(0.0003)	(0.0003)	.	0.0052	(0.001)			O: 0.0055	Fe:[68.4]	Sb: 0.0014		<b>17025</b>		
BS 317L	(0.005)	0.0013	(0.001)	.	0.005										
BS 85D	0.13	0.0006	0.0004	.	(0.006)	0.48			As: 0.006	O: 0.0014	Sb: 0.001				
BS 86F	(0.007)	0.0026	(0.001)	.	0.004	(0.006)									
BS 347A	(0.002)	(0.0004)	(0.0002)	.	0.007	(0.002)									
<b>BS 355</b>															
	0.0192	0.0039	(0.0002)	.	0.0038	0.0007			O: 0.0020						
BS 184A	1.00	(0.0004)	(0.0003)	.	(0.002)	0.051									

**SET BS 400-SS-16**

BS 150	0.002	.	.	.	(0.003)	(0.002)									
BS 410C	0.0079	(0.0001)	0.0022	.	0.0023	0.0006									
BS 90F	(0.006)	.	.	.	0.005	(0.002)			<b>17025</b>						
BS 151	(0.002)	.	.	0.328	0.005	(0.003)									
BS 98	0.003	.	(0.0005)	.	0.006	0.002									
<b>BS 152</b>															
	(0.002)	.	.	.	0.003	(0.002)									
<b>BS 97</b>															
	0.018	.	.	.	(0.003)	(0.002)									
<b>BS 91E</b>															
	(0.004)	.	0.0008	.	0.004	(0.002)									
<b>BS 153</b>															
	(0.004)	.	.	.	0.002	(0.004)									
<b>BS 92B</b>															
	(0.002)	.	(0.0009)	.	0.006	(0.002)									
<b>BS 93E</b>															
	0.009	.	.	.	0.003	0.007									
<b>BS 155</b>															
	(0.001)	.	.	.	(0.003)	(0.002)									
<b>BS 156</b>															
	(0.002)	.	.	0.142	(0.004)	0.001									
<b>BS 94C</b>															
	0.004	.	0.0008	.	0.006										
<b>BS 95A</b>															
	0.002	0.0010	0.0008	.	0.008	(0.003)									
<b>BS 96A</b>															
	0.08	(0.0017)	.	.	.	1.18									

Number	Al	B	Ca	Se	Sn	Ti
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HIGH ALLOY STEEL

# = Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Co	Mo	N	Nb	Ti	V
3	CZ SP-8B	2.37	0.86	0.022	0.012	1.40	0.075	2.72	37.6	0.13	0.075	0.10	.	0.04	0.13	0.13
2	CZ SP-4C	0.34	1.66	0.020	0.010	1.75	0.056	37.1	22.1	0.011	0.065	0.105	(0.04)	0.022	0.031	0.059
3	CZ SP-4B	0.31	1.36	0.027	0.008	1.51	0.04	35.8	20.8	0.025	.	0.02	.	.	.	.
1	IARM 242A	0.24	0.018	0.002	0.0004	0.02	0.007	11.1	3.00	0.004	13.5	0.00	0.0003	0.004	0.009	0.01
3	CZ SL-6A	0.17	0.24	0.015	0.029	0.23	0.22	32.3	6.8	0.26	0.69	0.13	.	0.36	1.8	0.15
2	CT 972	0.098	0.59	0.031	0.027	0.41	0.13	35.84	0.06	0.17	0.44	0.11	.	0.09	0.36	0.06
1	SRM 1246	0.082	0.91	0.018	0.001	1.18	0.49	30.8	20.1	0.30	0.076	0.36	(0.018)	(0.09)	0.32	(0.040)
2	23X DS5E	0.080	1.04	.	.	0.98	0.30	36.6	8.64	0.083	0.50	0.30	.	.	0.17	.
1	BS 800	0.073	0.789	0.0161	0.00036	0.560	0.323	31.29	19.90	0.279	0.054	0.195	0.0112	0.0183	0.469	0.071
1	NCS HS41747	0.071	0.807	0.015	0.0006	0.36	0.038	32.27	20.72	0.299	0.050	0.297	.	.	0.49	.
3	HH 5157A	0.067	0.95	0.012	0.003	0.43	0.33	29.31	21.48	0.45	.	.	.	.	0.55	.
2	DSZU C103	0.064	0.287	0.027	(0.006)	0.34	0.066	0.21	27.04	5.28	.	0.013	.	(0.002)	0.29	0.035
2	23X 8004E	0.06	0.70	.	.	0.53	0.30	31.8	19.72	0.31	0.53	0.33	.	.	0.34	.
2	23X DS2E	0.06	1.00	.	.	2.07	0.30	37.4	17.81	0.04	0.48	0.30	.	.	0.17	.
2	DSZU C104	0.055	0.838	0.035	0.019	0.78	0.199	0.51	29.77	6.58	.	0.18	.	0.52	0.76	0.22
1	IARM 24B	0.053	0.82	0.009	0.0010	0.28	0.052	35.86	0.121	0.002	0.036	0.011	0.0017	<0.01	0.002	<0.005
1	SS 479	0.0529	0.680	0.0029	0.0030	0.553	0.0052	24.87	19.922	(0.013)	(0.002)	(0.003)	0.0057	0.625	0.0306	0.0052
2	CT 971	0.052	0.20	0.038	0.017	0.27	0.02	36.03	0.22	0.25	0.17	0.23	.	0.04	0.48	0.05
2	23X DS4E	0.05	1.02	.	.	2.01	0.30	37.1	16.83	0.037	0.48	0.29	.	.	0.20	.
1	SRM 1230	0.044	0.64	0.023	0.0007	0.43	0.14	24.2	14.8	0.24	0.15	1.18	.	.	2.12	0.23
3	HH 5179A	0.042	0.87	0.012	0.003	0.38	0.26	34.13	22.20	0.30	.	.	.	.	0.46	.
2	BS 186A	0.040	0.72	0.008	0.0053	0.19	0.016	35.86	0.16	(0.001)	0.028	0.0032	0.0026	(<0.002)	(<0.003)	0.0012
2	DSZU C102	0.038	0.265	0.025	(0.006)	1.27	0.031	0.19	24.41	4.98	.	0.022	.	(0.005)	0.25	0.089
3	HH 5196A	0.036	1.05	0.011	0.002	0.45	0.24	31.46	20.66	0.31	.	.	.	.	1.13	.
3	HH 5300A	0.026	0.86	0.013	0.003	0.35	0.28	33.56	18.18	0.45	.	.	.	.	0.54	.
1	13X 14934Q	0.0254	0.254	0.024	0.0288	0.502	.	17.60	0.388	0.15	9.03	4.22	0.0132	.	0.694	.
1	SRM 1158	0.025	0.468	0.004	0.005	0.194	0.039	36.03	0.062	.	0.008	0.010	.	.	0.31	0.001
2	DSZU C101	0.024	0.198	0.013	(0.006)	0.32	0.055	0.34	21.77	5.06	.	0.026	.	(0.011)	0.31	0.023
1	IARM 302B *	0.022	0.93	0.026	0.0007	0.56	0.70	17.7	20.3	0.016	0.072	6.2	0.182	(0.014)	(0.005)	0.051
2	BS 187A	0.022	0.52	0.017	0.0025	0.26	3.10	33.06	19.75	(0.009)	0.32	2.06	0.0157	0.57	(0.002)	0.10
2	CT IS0139A	0.021	1.00	0.001	0.0005	0.015	<0.001	41.69	0.004	.	0.066	<0.001	.	.	.	.
1	SRM 1247	0.021	0.38	0.018	0.002	0.32	1.75	43.5	23.4	0.060	0.089	2.73	(0.017)	(0.46)	0.75	(0.048)
2	BS 187C	0.020	0.77	0.024	<0.002	0.77	3.17	32.93	20.16	0.10	0.096	2.07	0.022	0.36	(0.001)	0.059
2	CT IS0141A	0.0199	0.31	0.001	<0.001	0.28	<0.001	47.16	<0.001	0.001	0.030	<0.001	<0.001	.	0.014	0.024
1	13X 31254A	0.0185	0.590	0.0191	0.0011	0.400	0.575	18.34	20.11	0.0134	0.125	6.13	0.205	.	.	0.0595
2	CT IS0136A	0.018	0.44	0.001	<0.001	0.198	<0.001	44.92	0.002	.	0.009	<0.001	.	.	.	.
1	ECRM 299-1D	0.0154	0.2678	0.0152	0.00022	0.299	0.0382	0.172	22.32	5.33	0.0187	0.0186	0.0198	.	0.1289	0.0329
1	BS 189A	0.0147	0.639	0.019	(0.001)	0.30	0.184	23.8	20.4	0.0129	0.00	6.04	0.198	(0.13)	0.0065	0.054
1	NILAB 501HA D	0.014	0.858	0.020	0.003	.	0.761	17.69	19.79	0.003	0.159	6.14	0.2243	0.007	.	0.044
1	KUT S22	0.014	0.34	0.009	0.008	0.61	(0.02)	28.2	1.00	.	.	0.82	.	.	0.13	.
1	NCS HS41753	0.013	1.45	0.025	0.0057	0.42	1.51	24.40	19.27	(0.012)	.	4.29	0.020	(0.012)	(0.0013)	0.093
1	ECRM 379-1D	0.0121	1.804	0.0166	0.0006	0.393	0.984	30.83	26.79	(0.00246)	0.0390	3.290	0.0550	(0.0028)	(0.0014)	0.0663
2	CT IS0124A	0.011	0.73	0.007	0.006	0.40	0.015	48.07	0.079	.	0.012	0.009	.	.	.	.
1	13X 14935T	0.0105	0.494	0.036	0.055	0.441	.	18.96	0.745	(0.007)	7.17	5.61	0.0102	.	0.106	.
1	14X 93603A	0.0101	0.339	0.0050	0.0045	0.153	0.0460	35.79	0.024	0.0404	0.0974	0.0145	0.0057	.	0.0011	.
1	SRM 1159	0.007	0.30	0.003	0.003	0.32	0.038	48.2	0.06	.	0.022	0.01	.	.	.	.
1	IARM 98B	0.007	0.18	0.002	0.0007	0.17	0.028	29.4	0.012	0.07	17.0	0.010	0.0024	0.002	0.03	(0.003)
1	BS 160A	0.0064	0.180	0.0007	(0.0002)	0.158	0.026	29.6	0.0138	0.088	17.0	0.0100	0.0026	0.0014	0.026	0.0008
3	CZ SP-7A	0.006	0.08	0.007	0.010	0.036	0.08	47.3	0.01	0.003	0.003	0.01	.	.	0.004	0.001
1	IARM 99B	0.005	0.036	0.005	0.0005	0.022	0.094	18.46	0.081	0.095	9.24	4.88	0.0011	(0.005)	0.74	0.012
1	BS 161A	0.004	0.031	0.004	0.0007	0.032	0.22	18.40	0.12	0.14	9.22	4.82	(0.002)	(0.004)	0.65	0.031
2	CT IS0138A	0.002	0.48	0.001	0.006	<0.010	<0.001	39.98	<0.001	.	0.64	<0.001	.	.	0.34	.
1	IARM 326A	(0.002)	0.003	0.003	0.011	0.029	(0.002)	0.037	(0.002)	(0.003)	48.4	(0.002)	0.0004	0.038	(0.002)	1.94
1	ECRM 285-2D	0.0018	0.0168	0.0053	0.0025	0.0117	0.0094	18.07	0.0236	0.1067	7.76	4.99	0.0007	.	0.520	.

Number	As	B	Ca	Ce	Mg	O	Se	Sn	Ta	W	Zr	Units
CZ SP-8B	0.05	0.03	.	.	.	.	.	0.06	.	0.05	.	~39 mm Ø x 25 mm
CZ SP-4C	.	.	.	.	.	.	.	.	.	(0.01)	.	~39 mm Ø x 25 mm
CZ SP-4B	.	.	.	.	.	.	.	.	.	.	.	~39 mm Ø x 25 mm last of stock
IARM 242A	.	(0.0005)	.	.	.	0.0006	.	(0.001)	0.008	<0.01	.	31 mm Ø x 2 or 18 mm
CZ SL-6A	0.004	.	.	.	.	.	.	0.006	.	1.74	.	~39 mm Ø x 25 mm
CT 972	.	.	.	.	Pb: 0.0014	0.28	0.0008	.	.	.	.	30-35 mm Ø x 20-25 mm Ag: 0.005
SRM 1246	(0.004)	<0.001	Ga: (0.004)	.	.	(0.003)	.	.	.	(0.004)	.	35 mm Ø x 19 mm Fe: 46.2
23X DS5E	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
BS 800	0.0036	0.0032	0.00030	.	(0.002)	(0.0009)	17025	0.0026	(0.001)	0.0056	0.0018	44 mm Ø x ~7 or 19+ mm Fe:46.0 Pb, Sb in ppm
NCS HS41747	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 30 mm
HH 5157A	.	.	.	.	.	.	.	.	.	.	.	44 mm Ø x 12 mm sale price
DSZU C103	.	.	.	.	.	.	.	.	.	(0.004)	(0.001)	38 mm Ø x 18 mm
23X 8004E	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
23X DS2E	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
DSZU C104	.	.	.	.	.	.	.	.	.	(0.008)	0.28	36 mm Ø x 18 mm
IARM 24B	<0.005	(0.001)	.	.	.	0.003	0.19	0.0018	<0.005	<0.04	<0.005	31 mm Ø x 2 or 18 mm Fe: 62.6
SS 479	(0.002)	<0.0005	.	.	.	.	.	.	.	.	.	38 mm Ø x 19 mm
CT 971	.	.	.	.	Pb: 0.015	0.20	0.026	.	.	.	.	30-35 mm Ø x 20-25 mm Ag: 0.026
23X DS4E	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
SRM 1230	.	0.0055	.	.	.	.	.	.	.	.	.	32 mm Ø x 19 mm
HH 5179A	.	.	.	.	.	.	.	.	.	.	.	41 mm Ø x 12 mm sale price
BS 186A	.	.	.	.	.	.	0.229	(0.002)	.</			

**RM HIGH ALLOY STEEL XRF SET**

Part Number: BS HAS-12

AVAILABLE INDIVIDUALLY

~7 mm discs

Number Grade	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	B	Co	N	Nb	Sn	Ti	V	W	O
<b>BS 189A</b> AL6XN CRM 17025	0.0147	0.639	0.019	(0.001)	0.30	0.184	23.8	20.4	6.04	0.0129	(0.0002)	0.100	0.198	(0.13)	0.0035	0.0065	0.054	0.037	0.0024
BS 179A Alloy 255	0.017	1.04	0.021	0.001	0.44	1.94	5.84	25.45	3.24	(0.009)	(0.001)	0.58	0.184	0.030	0.005	0.006	0.070	(0.2)	.
BS 183 Greek Ascology	0.16	0.43	0.020	0.013	0.33	0.068	2.00	12.81	0.35	.	.	0.029	.	(0.003)	(0.0016)	0.003	0.12	2.77	.
BS 186A Invar 36	0.040	0.72	0.008	0.0053	0.19	0.016	35.86	0.16	0.0032	(0.001)	.	0.028	0.0026	(<0.002)	(0.002)	(<0.003)	0.0012	(0.01)	.
BS 187A Carp. 20Cb3	0.022	0.52	0.017	0.0025	0.26	3.10	33.06	19.75	2.06	(0.009)	0.0022	0.32	0.0157	0.57	0.003	(0.002)	0.10	(0.02)	.
BS 188A A-286	0.050	0.139	0.015	0.0049	0.15	0.099	24.61	14.04	1.10	0.19	0.0065	0.18	0.0029	0.050	0.002	2.21	0.24	0.055	.
BS 190 Nitronic® 40	0.022	9.72	0.015	0.001	0.46	0.072	6.74	19.57	0.15	(0.004)	0.0005	0.044	0.255	(0.004)	0.003	0.002	0.11	0.015	0.0045
BS 180A Nitronic® 50	0.018	5.05	0.012	0.001	0.32	0.067	13.19	21.09	2.04	0.012	(0.0024)	0.039	0.334	0.20	(0.002)	(0.002)	0.20	0.02	0.003
BS 181A Nitronic® 60	0.071	8.16	0.019	0.001	4.03	0.18	8.15	16.52	0.21	0.022	0.0009	0.072	0.148	0.017	0.005	0.007	0.094	0.04	0.0010
BS 193 18Cr-12Mn	0.104	12.11	0.018	0.002	0.66	0.088	1.82	18.48	0.21	(0.003)	0.0007	0.028	0.37	0.014	0.004	0.003	0.107	(0.007)	.
BS 182 17Cr-15Mn	0.037	15.09	0.022	(0.003)	0.46	0.56	1.11	16.67	0.99	.	.	0.032	(0.40)	(0.005)	(0.003)	(0.003)	0.059	(0.01)	.
BS 191 16Cr-6Mn-4Si	0.098	5.71	0.024	0.023	3.66	0.33	5.34	16.33	0.36	(0.002)	(0.0006)	0.11	0.117	0.024	(0.006)	0.012	0.083	0.033	.

**CRM CAST IRON SETS**

AVAILABLE IN SETS ONLY, as grouped

Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Mo	Sn	Ti	V	Ce	La	Mg	N
30 mm Ø x 28 mm																	
NCS HS11712a-6	4.02	1.41	0.021	0.026	0.163	1.83	1.89	0.112	0.019	0.726	0.057	0.238	0.509	<0.0001	<0.0001	0.104	0.013
NCS HS11712a-7	3.94	1.38	0.085	0.0048	0.918	1.10	1.37	1.05	0.214	0.168	0.134	0.114	0.390	<0.0001	<0.0001	0.056	0.0063
NCS HS11712a-5	3.52	0.311	0.420	0.019	1.17	0.389	1.03	0.766	.	0.629	0.013	0.161	0.324	<0.0001	<0.0001	0.021	0.0047
NCS HS11712a-4	3.16	0.462	0.396	0.017	1.96	0.921	0.778	1.40	0.0073	0.428	0.024	0.065	0.166	<0.0001	<0.0001	0.025	0.0073
NCS HS11712a-2	2.22	0.301	0.043	0.058	2.44	0.458	0.341	2.13	0.060	0.087	0.044	0.065	0.055	0.0010	0.010	0.0085	0.024
NCS HS11712a-3	2.55	0.878	0.071	0.045	1.50	0.641	0.519	0.417	0.034	0.354	0.021	0.027	0.085	0.027	0.0061	0.024	0.024
NCS HS11712a-1	1.75	0.080	0.580	0.119	3.40	0.025	0.030	2.48	0.248	0.031	0.0031	0.038	0.021	<0.0001	<0.0001	0.0006	0.015
30 mm Ø x 30 mm																	
NCS HS19701-7	4.13	2.06	0.306	0.111	1.85	.	0.026	0.157	.	.	0.043	0.399	0.821	.	.	.	.
NCS HS19701-6	3.93	1.46	0.168	0.124	0.99	.	0.094	0.387	.	(0.112)	0.0018	0.105	0.506	.	.	.	.
NCS HS19701-5	3.67	0.596	0.072	0.117	0.183	.	0.502	0.171	.	(0.68)	0.0022	0.066	0.335	.	.	.	.
NCS HS19701-4	3.70	0.857	0.087	0.076	0.451	.	0.032	0.117	.	(0.031)	0.0017	0.030	0.158	.	.	.	.
NCS HS19701-3	3.29	1.22	0.045	0.056	0.689	.	0.046	0.030	.	.	0.009	0.043	0.071	.	.	.	.
NCS HS19701-2	2.99	0.329	0.033	0.038	0.937	.	0.194	0.080	.	.	0.024	0.216	0.044	.	.	.	.
NCS HS19701-1	2.46	0.072	0.011	0.019	0.099	.	0.183	0.511	.	.	0.005	0.0059	0.0090	.	.	.	.



## RM GRAY IRON

as cast (not chill cast)

CONTAINS FREE GRAPHITE

OES regularly requires extension of preburn time to analyze correctly

Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	As	Co	Mo	Sb	Sn	Ti	V	mm Ø x mm H
BS 20G	3.33	0.58	0.028	0.029	3.02	0.54	0.38	0.086	0.008	0.004	0.022	0.19	(<0.001)	0.12	0.012	0.018	47 x 19+
BS 20W	3.27	0.62	0.045	0.036	2.64	0.29	0.082	0.092	0.004	0.004	0.005	0.054	(<0.001)	0.086	0.015	0.007	47 x 13
BS 20R	3.25	0.62	0.047	0.034	2.72	0.35	0.096	0.094	0.005	0.004	0.006	0.053	(<0.001)	0.104	0.015	0.007	47 x 19+
BS 20E	3.24	0.80	0.042	0.044	2.29	0.23	0.156	0.088	0.006	(0.003)	0.006	0.042	(<0.002)	0.093	0.017	0.007	47 x 19+
BS 20P	3.22	0.63	0.032	0.044	2.62	0.067	0.143	0.079	0.008	(0.004)	0.018	0.033	(<0.001)	0.099	0.018	0.017	44 x 19+

## DUCTILE / NODULAR IRON

# = Class, where 1 = CRM and 2 = RM

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Ce	Co	Mg	Mo	Ti	V
1	SCRM 668/13	3.724	0.712	.	.	1.400	0.751	0.097	0.962	.	0.0245	.	0.0116	0.0193	0.091	0.193
1	SCRM 666/12	3.599	0.106	.	.	1.763	0.0581	1.709	0.102	.	.	.	0.0838	0.0979	0.1069	0.0486
1	SCRM 670/19	3.532	0.324	.	0.0085	2.216	0.985	0.916	0.484	.	0.0139	.	0.0470	0.0098	0.109	0.0231
1	BS 291DH	3.35	0.456	0.0216	0.0156	2.32	0.189	0.170	0.159	0.0089	.	0.0062	0.043	0.0220	0.0265	0.013
1	BS 291DG	3.35	0.456	0.0216	0.0156	2.32	0.189	0.170	0.159	0.0089	.	0.0062	0.042	0.0220	0.0265	0.013
1	BS 286AF	3.24	0.740	0.201	0.0162	2.03	0.341	1.360	0.165	(0.009)	.	(0.004)	0.037	0.258	0.054	0.151
1	BS 286AE	3.24	0.740	0.201	0.0162	2.03	0.341	1.360	0.165	(0.009)	.	(0.004)	0.036	0.258	0.054	0.151
1	BS 286AD	3.24	0.740	0.201	0.0162	2.03	0.341	1.360	0.165	(0.009)	.	(0.004)	0.035	0.258	0.054	0.151
1	BS 286AC	3.24	0.740	0.201	0.0162	2.03	0.341	1.360	0.165	(0.009)	.	(0.004)	0.034	0.258	0.054	0.151
1	SCRM 667/13	3.04	0.222	.	.	2.866	0.497	1.303	0.294	.	0.110	.	0.070	.	.	0.103
1	SCRM 669/14	2.955	0.526	.	.	2.201	0.194	0.473	0.214	.	0.0415	.	0.0224	0.0550	0.0499	0.532
1	SRM C1137a	2.86	0.52	0.087	0.017	1.15	0.192	2.17	0.643	(0.007)	0.016	.	0.032	0.86	(0.04)	0.019
1	SRM C2424	2.68	0.268	0.041	0.024	3.37	0.125	0.061	0.13	(<0.01)	0.0046	(0.05)	0.006	0.019	0.050	0.083
1	BAS SIMO 1/4	2.57	0.329	0.031	0.010	3.95	0.027	0.017	0.913	0.024	.	0.014	0.028	0.699	0.007	0.008
1	BAS SIMO 2/2	2.14	0.434	0.025	0.007	4.75	0.010	0.0189	0.856	0.013	0.006	0.0029	0.026	0.484	0.005	0.009

Number	As	B	Ca	Fe	La	Nb	Pb	Sb	Sn	W	Zr	Units
SCRM 668/13	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
SCRM 666/12	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
SCRM 670/19	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
BS 291DH	0.0017	0.0089	0.0012	[93.1]	.	0.0024	0.0009	0.0024	0.0019	(0.002)	0.0017	~35 mm Ø x ~30 mm
BS 291DG	0.0017	0.0089	0.0012	[93.1]	.	0.0024	0.0009	0.0024	0.0019	(0.002)	0.0017	~35 mm Ø x ~30 mm
BS 286AF	(0.01)	0.0085	(0.001)	[91.4]	.	(0.003)	.	(0.004)	(0.008)	(0.007)	.	~35 mm Ø x ~30 mm
BS 286AE	(0.01)	0.0085	(0.001)	[91.4]	.	(0.003)	.	(0.004)	(0.008)	(0.007)	.	~35 mm Ø x ~30 mm
BS 286AD	(0.01)	0.0085	(0.001)	[91.4]	.	(0.003)	.	(0.004)	(0.008)	(0.007)	.	~35 mm Ø x ~30 mm
BS 286AC	(0.01)	0.0085	(0.001)	[91.4]	.	(0.003)	.	(0.004)	(0.008)	(0.007)	.	~35 mm Ø x ~30 mm
SCRM 667/13	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
SCRM 669/14	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
SRM C1137a	.	.	.	.	.	.	.	.	.	.	.	32 mm Ø x 19 mm
SRM C2424	.	(0.002)	.	.	0.0011	.	.	.	.	.	.	32 mm Ø x 19 mm
BAS SIMO 1/4	0.002	.	.	.	.	.	.	.	0.046	.	.	48 mm x 42 mm x 12 mm
BAS SIMO 2/2	0.039	.	.	.	.	.	.	.	0.038	.	.	48 mm x 42 mm x 12 mm

## RM Si-Mo CAST IRON

BAS SIMO: 48 mm x 42 mm x 12 mm block

CTIF: each unit = one pair 43 mm Ø x 5 mm discs

Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	Ti	V	Co	As	Sn	Ce	Mg
CTIF SiMo-3	3.18	0.61	0.053	(0.0006)	4.02	0.0325	0.066	0.110	0.604	1.15	0.0176	0.0171	0.0296	.	.	.	0.013
CTIF SiMo-1	2.98	0.365	0.013	(0.0015)	4.03	0.035	0.065	0.036	0.752	.	(0.018)	(0.018)	(0.03)	.	.	.	0.019
CTIF SiMo-5	2.94	0.439	0.0282	.	4.31	0.0121	0.194	0.032	0.841	.	0.010	(0.0095)	(0.013)	.	.	.	.
CTIF SiMo-2	(2.85)	0.335	0.0260	(0.001)	3.85	0.036	(0.061)	0.038	1.04	1.51	(0.016)	(0.017)	(0.030)	.	.	.	0.072
BAS SIMO 1/3	2.70	0.333	0.040	0.007	4.07	0.028	0.030	0.899	0.776	0.026	0.007	0.007	0.013	0.047	0.048	.	0.036
CTIF SiMo-4	2.70	0.280	0.0211	(0.0015)	4.35	0.0657	(0.029)	0.0845	0.400	(0.038)	0.0171	0.0133	(0.015)	.	.	.	0.100
BAS SIMO 2/2	2.14	0.434	0.025	0.007	4.75	0.010	0.0189	0.856	0.484	0.013	0.005	0.009	0.0029	0.039	0.038	0.006	0.026

## CRM WHITE IRON

analysis listed in mass %

Number	C	Mn	P	S	Si	Cu	Ni	Cr	Co	Mo	Nb	Ti	V
BS WI-2	3.61	0.80	0.22	0.056	0.52	0.0124	0.254	0.229	0.0118	0.219	0.128	0.089	0.215
SRM C1145	2.92	0.187	0.215	0.191	0.271	0.46	0.62	0.63	0.058	0.48	.	0.012	0.112
VS Chg 8/6	(2.7)	1.51	0.040	0.013	3.93	.	.	(0.2)	.	.	.	.	(0.3)
VS Chg 10/6	(2.7)	0.86	0.103	0.0072	2.86	.	.	(0.2)	.	.	.	.	(0.3)
VS Chg 11/6	(2.7)	0.312	0.23	0.039	1.79	.	.	(0.2)	.	.	.	.	(0.3)
VS Chg 9/6	(2.7)	0.155	0.38	0.071	0.80	.	.	(0.2)	.	.	.	.	(0.3)
BS WI-1	1.75	0.24	0.051	0.114	1.90	0.027	0.053	0.048	0.0074	0.0103	0.027	0.020	0.008

  

Number	Al	As	B	Bi	Ca	Fe	Mg	Pb	Sb	Sn	W	Zr	Units
BS WI-2	0.0192	0.0016	0.0008	.	(0.00013)	[93.6]	(0.0002)	0.013	0.023	0.0042	0.023	0.0045	~35 mm Ø x ~30 mm
SRM C1145	(0.04)	(0.03)	(0.02)	(<0.01)	.	.	.	0.0012	(0.04)	(0.10)	.	(0.002)	32 mm Ø x 19 mm
VS Chg 8/6	.	(0.003-0.006)	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
VS Chg 10/6	.	(0.003-0.006)	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
VS Chg 11/6	.	(0.003-0.006)	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
VS Chg 9/6	.	(0.003-0.006)	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
BS WI-1	0.075	0.0067	0.0032	.	0.0005	[95.5]	0.0009	0.115	.	0.0081	0.185	0.0034	~35 mm Ø x ~30 mm

## CAST IRON WITH MAGNESIUM - continued on the next page

# = Class, where 1 = CRM and 2 = RM

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mg	Te	Al	Ce	Co	Mo	Ti	V
1	CZ 20034 17b	4.38	0.501	0.089	0.0040	0.178	0.111	2.34	0.200	0.009	.	(0.002)	(0.003)	0.043	0.030	0.016	0.086
1	CZ 20034 17a	4.30	0.494	0.115	0.0034	0.170	0.082	2.38	0.200	0.007	.	(0.002)	(0.003)	0.043	0.030	0.016	0.086
1	CZ 20034 17c	4.08	0.503	0.104	0.0033	0.150	0.037	2.32	0.178	0.007	.	(0.002)	(0.003)	0.043	0.030	0.015	0.076
1	Y 2863-11	4.03	0.61	0.613	0.026	0.79	0.96	0.46	1.65	0.0075	.	.	.	.	0.94	0.29	0.079
1	Y 451045	3.90	0.12	0.023	0.0027	2.29	0.022	0.45	0.028	0.033	.	.	.	.	0.0030	0.016	0.0014
1	CZ 20233 2g	3.78	0.096	0.125	0.009	1.10	0.88	0.650	0.027	0.036	(0.004)	0.019	0.013	0.012	(0.002)	0.029	0.017
1	Y 2863-12	3.77	0.158	0.053	0.057	0.150	0.55	0.192	2.31	0.0024	.	.	.	.	0.44	0.030	0.229
1	CZ 20233 2f	3.77	0.091	0.159	0.009	1.23	0.89	0.658	0.022	0.053	.	0.024	0.018	(0.003)	(0.002)	0.021	0.010
1	VS ChG 25	3.74	0.68	0.0090	0.0035	1.46	0.79	0.38	0.25	0.037	.	0.009	.	.	0.253	0.017	0.086
1	Y 451047	3.73	2.35	0.51	0.0036	2.02	1.98	3.57	1.58	0.060	.	.	.	.	0.050	0.40	0.018
1	SCRM 668/13	3.724	0.712	.	.	1.400	0.751	0.097	0.962	0.0116	.	.	0.0245	.	0.0193	0.091	0.193
1	CZ 20233 3c	3.68	0.333	0.026	0.007	2.15	0.421	0.040	0.100	0.006	(0.005)	0.024	0.013	0.026	0.490	0.021	0.016
1	SCRM 666/12	3.599	0.106	.	.	1.763	0.0581	1.709	0.102	0.0838	.	.	.	.	0.0979	0.1069	0.0486
1	Y 451087-5	3.58	0.44	0.034	0.018	1.74	0.26	0.59	0.50	0.039	.	.	.	.	0.18	0.055	0.20
1	CZ 20034 15a	3.54	0.051	0.054	0.0029	1.68	1.322	0.661	0.070	0.031	.	0.026	0.026	0.027	0.005	0.034	0.014
1	SCRM 670/19	3.532	0.324	.	0.0085	2.216	0.985	0.916	0.484	0.0470	.	.	0.0139	.	0.0098	0.109	0.0231
1	11X SG1A	3.53	0.278	0.0363	0.0095	2.96	0.0194	0.042	0.0299	0.040	.	0.0187	.	.	.	0.0150	.
1	CZ 20034 15b	3.52	0.048	0.054	0.0031	1.66	1.322	0.681	0.067	0.037	.	0.029	0.021	0.027	0.004	0.025	0.013
1	11X SG2A	3.48	0.297	0.0353	0.0075	3.03	0.0245	0.0263	0.0304	0.055	.	0.0238	.	.	.	0.0146	.
1	Y 451042	3.47	0.71	0.043	0.012	2.11	0.35	1.39	1.02	0.023	.	.	.	.	0.22	0.029	0.15
1	CZ 20233 2e	3.47	0.168	0.106	0.010	1.03	0.89	0.620	0.043	0.038	(0.006)	0.025	0.017	0.005	(0.002)	0.039	0.026
1	CZ 20034 15c	3.47	0.060	0.054	0.0028	1.68	1.123	0.728	0.078	0.040	.	0.010	0.030	0.026	(0.002)	0.036	0.019
1	CZ 20233 3b	3.38	0.260	0.012	0.012	1.74	0.400	0.049	0.235	0.012	.	0.026	0.006	0.012	0.456	0.023	0.009
1	Y 451044	3.36	0.231	0.040	0.0060	2.44	.	2.24	0.16	0.033	.	.	0.006	.	.	0.073	.
1	<b>BS 291DH</b>	3.35	0.456	0.0216	0.0156	2.32	0.189	0.170	0.159	<b>0.043</b>	.	0.0089	.	0.0062	0.0220	0.0265	0.013
1	<b>BS 291DG</b>	3.35	0.456	0.0216	0.0156	2.32	0.189	0.170	0.159	<b>0.042</b>	.	0.0089	.	0.0062	0.0220	0.0265	0.013
1	VS ChG 28	3.29	0.414	0.025	0.015	2.22	1.29	0.166	0.127	0.010	.	0.015	.	.	0.0024	0.0041	0.0020
1	CZ 20034 14a	3.29	0.218	0.0115	0.0103	2.25	0.578	0.021	0.042	0.015	.	0.009	0.009	0.005	0.633	0.018	0.013
1	CZ 20034 14b	3.26	0.240	0.0115	0.0096	2.34	0.640	0.020	0.042	0.015	.	0.012	0.012	0.005	0.635	0.021	0.012
1	<b>BS 286AF</b>	3.24	0.740	0.201	0.0162	2.03	0.341	1.360	0.165	<b>0.037</b>	.	(0.009)	.	(0.004)	0.258	0.054	0.151
1	<b>BS 286AE</b>	3.24	0.740	0.201	0.0162	2.03	0.341	1.360	0.165	<b>0.036</b>	.	(0.009)	.	(0.004)	0.258	0.054	0.151
1	<b>BS 286AD</b>	3.24	0.740	0.201	0.0162	2.03	0.341	1.360	0.165	<b>0.035</b>	.	(0.009)	.	(0.004)	0.258	0.054	0.151
1	<b>BS 286AC</b>	3.24	0.740	0.201	0.0162	2.03	0.341	1.360	0.165	<b>0.034</b>	.	(0.009)	.	(0.004)	0.258	0.054	0.151
1	CZ 20233 3d	3.24	0.317	0.008	0.006	2.12	0.396	0.025	0.236	0.016	.	0.055	0.006	0.014	0.453	0.016	0.072
1	CZ 20233 1f	3.23	0.693	0.043	0.005	2.68	0.018	0.373	0.035	0.070	(0.007)	0.073	0.036	0.024	0.182	0.041	0.014

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mg	Te	Al	Ce	Co	Mo	Ti	V
1	CZ 20233 1g	3.22	0.701	0.036	0.007	2.53	0.027	0.357	0.044	0.050	.	0.062	0.023	0.010	0.185	0.054	0.019
1	CZ 20034 13c	3.15	0.704	0.0261	0.0044	2.23	0.089	1.299	0.124	0.064	.	0.022	0.011	0.024	0.360	0.015	0.043
1	CZ 20233 1e	3.15	0.718	0.037	0.006	2.72	0.012	0.367	0.037	0.044	.	0.058	0.027	0.022	0.185	0.046	0.015
1	CZ 20233 1c	3.15	0.674	0.064	0.010	2.36	0.035	0.367	0.051	0.019	.	0.033	0.009	.	0.197	0.036	0.019
1	CZ 20034 14c	3.14	0.275	0.0162	0.0081	2.49	0.585	0.030	0.045	0.017	.	0.007	0.019	0.009	0.646	0.018	0.013
1	CKD 247C (U)	3.13	0.99	0.099	0.0033	1.29	0.84	0.503	0.029	0.053	(0.007)	0.041	0.058	0.097	0.024	0.057	0.010
1	CZ 20034 13a	3.13	0.691	0.0244	0.0046	2.19	0.021	1.266	0.122	0.053	.	0.017	0.011	0.024	0.364	0.014	0.048
1	CZ 20034 13b	3.12	0.692	0.0243	0.0041	2.12	0.021	1.313	0.125	0.054	.	0.019	0.011	0.024	0.364	0.012	0.048
1	CKD 247B	3.09	1.05	0.098	0.0034	1.20	0.822	0.437	0.041	0.056	(0.008)	0.043	0.053	0.095	0.023	0.067	0.013
1	VS ChG 24	3.05	0.245	0.260	0.0048	2.50	0.100	0.87	0.031	0.015	.	0.007	.	.	0.031	0.060	0.0067
1	Y 2863-9	3.04	1.43	0.049	0.015	1.53	0.269	1.59	0.72	0.043	.	.	.	.	1.38	0.212	0.41
1	VS ChM5/1	3.04	0.311	0.056	0.016	1.37	.	.	.	0.045	.	0.013	.	.	.	.	.
1	SCRM 667/13	3.04	0.222	.	.	2.866	0.497	1.303	0.294	0.070	.	.	0.110	.	.	.	0.103
1	VS ChM6/1	3.03	0.54	0.055	0.0074	2.75	.	.	.	0.072	.	0.022	.	.	.	.	.
1	VS ChM8/1	3.02	0.83	0.055	0.0034	3.39	.	.	.	0.105	.	0.041	.	.	.	.	.
1	VS ChM13	2.96	1.05	0.043	0.009	2.98	0.062	1.65	0.273	0.09	.	0.065	.	.	.	0.018	0.0096
1	SCRM 669/14	2.955	0.526	.	.	2.201	0.194	0.473	0.214	0.0224	.	.	0.0415	.	0.0550	0.0499	0.532
1	CKD 245B (U)	2.95	1.38	0.42	0.035	1.59	0.081	0.194	0.197	0.003	(0.017)	0.038	(0.00)	0.007	0.115	0.110	0.055
1	CKD 245A	2.94	1.38	0.41	0.039	1.58	0.076	0.161	0.166	0.003	(0.018)	0.019	(0.00)	0.003	0.114	0.087	0.073
1	VS ChG 26	(2.9)	0.126	0.123	0.0041	2.98	0.014	1.52	0.050	0.044	.	0.038	.	.	0.075	0.0026	0.040
1	VS ChM10	2.89	0.43	0.067	0.017	1.13	0.082	0.85	0.067	0.024	.	0.005	.	.	.	0.028	0.079
1	SRM C1137a	2.86	0.52	0.087	0.017	1.15	0.192	2.17	0.643	0.032	.	(0.007)	0.016	.	0.86	(0.04)	0.019
1	CKD 246B	2.73	0.354	0.66	0.020	0.76	1.39	0.065	1.16	0.016	(0.00)	0.101	0.007	0.012	0.009	0.014	0.013
1	SRM C2424	2.68	0.268	0.041	0.024	3.37	0.125	0.061	0.13	0.006	.	(<0.01)	0.0046	(0.05)	0.019	0.050	0.083
1	VS ChM9	2.61	1.28	0.075	0.021	1.59	0.095	0.38	0.083	0.011	.	0.016	.	.	.	0.027	0.068
1	VS ChM11	2.26	0.77	0.032	0.011	2.32	0.067	1.75	0.122	0.066	.	0.035	.	.	.	0.014	0.0044
1	Y 2863-7	1.98	3.42	0.067	0.0061	3.10	0.089	4.47	0.150	0.050	.	.	0.019	.	0.052	0.060	0.87

BS: 28-34 mm Ø x 17-35 mm      CKD 24x: 37 mm x 37 mm x ~15-20 mm      SCRM: 48 mm x 42 mm x 12 mm      VS: ~40 mm Ø x ~40 mm  
 CZ: 40 mm Ø x 18 mm      SRM: 32 mm Ø x 19 mm      Y: 30 mm Ø x 30 mm

## CAST IRON WITH MAGNESIUM - continued from the previous page

sizes shown below

Number	As	B	Bi	Ca	Fe	La	Nb	Pb	Sb	Se	Sn	W	Zr	Other
CZ 20034 17b	0.008	(0.0002)	(0.001)	.	.	.	.	(0.002)	.	.	(0.002)	0.004	.	.
CZ 20034 17a	0.007	(0.0002)	(0.001)	.	.	.	.	(0.002)	.	.	(0.002)	0.004	.	.
CZ 20034 17c	0.0005	(0.0006)	(0.002)	.	.	.	.	(0.002)	.	.	(0.002)	0.004	.	.
Y 2863-11	(0.022)	0.053	.	.	.	.	0.33	(0.0057)	(0.174)	.	(0.108)	0.010	.	.
Y 451045	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CZ 02033 2g	.	0.0023	0.006	.	.	.	.	0.008	0.029	.	0.015	(0.004)	.	Zn: 0.020
Y 2863-12	(0.0097)	0.0078	.	.	.	.	0.21	(0.056)	(0.471)	.	(0.307)	0.13	.	.
CZ 02033 2f	.	0.0020	(0.002)	.	.	.	.	0.005	0.028	.	0.014	(0.003)	(0.005)	Zn: 0.018
VS ChG 25	.	.	.	.	.	.	.	.	0.052	.	0.017	.	.	.
Y 451047	.	0.31	.	.	.	.	0.012	.	.	.	.	.	.	.
SCRM 668/13	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CZ 02033 3c	(0.007)	0.0044	(0.002)	.	.	.	.	0.005	.	.	0.009	(0.003)	.	.
SCRM 666/12	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Y 451087-5	.	0.019	.	.	.	.	.	.	.	.	0.0045	.	.	.
CZ 20034 15a	(0.003)	0.0041	0.012	.	.	.	.	.	0.058	.	0.005	0.006	.	.
SCRM 670/19	.	.	.	.	.	.	.	.	.	.	.	.	.	.
11X SG1A	0.0021	.	.	.	.	.	.	.	.	.	.	.	Zn:0.041	~50Ø x ~15mm
CZ 20034 15b	(0.003)	0.0033	0.010	.	.	.	.	.	0.058	.	0.005	0.007	.	.
11X SG2A	0.0022	.	.	.	.	.	.	.	.	.	.	.	Zn:0.040	~50Ø x ~15mm
Y 451042	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CZ 02033 2e	.	0.0024	0.005	.	.	.	.	(0.004)	0.028	.	0.015	0.008	.	Zn: 0.025
CZ 20034 15c	(0.003)	0.0057	0.008	.	.	.	.	.	0.056	.	0.006	0.004	.	.
CZ 02033 3b	.	0.0042	0.001	.	.	.	.	0.009	.	.	0.019	.	.	.
Y 451044	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<b>BS 291DH</b>	0.0017	0.0089	.	0.0012	[93.1]	.	0.0024	0.0009	0.0024	.	0.0019	(0.002)	0.0017	<b>17025</b>
<b>BS 291DG</b>	0.0017	0.0089	.	0.0012	[93.1]	.	0.0024	0.0009	0.0024	.	0.0019	(0.002)	0.0017	<b>17025</b>
VS ChG 28	.	.	.	.	.	.	.	.	0.015	.	0.0017	.	.	.
CZ 20034 14a	0.036	0.0096	0.007	.	.	.	.	(0.005)	0.015	.	0.027	(0.005)	0.011	Zn: 0.010
CZ 20034 14b	0.034	0.0100	0.007	.	.	.	.	(0.005)	0.016	.	0.028	(0.005)	0.014	Zn: 0.009
<b>BS 286AF</b>	(0.01)	0.0085	.	(0.001)	[91.4]	.	(0.003)	.	.	.	(0.004)	(0.008)	(0.007)	<b>17025</b>
<b>BS 286AE</b>	(0.01)	0.0085	.	(0.001)	[91.4]	.	(0.003)	.	.	.	(0.004)	(0.008)	(0.007)	<b>17025</b>
<b>BS 286AD</b>	(0.01)	0.0085	.	(0.001)	[91.4]	.	(0.003)	.	.	.	(0.004)	(0.008)	(0.007)	<b>17025</b>
<b>BS 286AC</b>	(0.01)	0.0085	.	(0.001)	[91.4]	.	(0.003)	.	.	.	(0.004)	(0.008)	(0.007)	<b>17025</b>
CZ 02033 3d	(0.018)	0.0071	(0.002)	.	.	.	.	0.005	0.007	.	0.009	.	.	.
CZ 02033 1f	.	0.0043	(0.001)	.	.	.	.	0.009	.	.	0.030	0.022	(0.008)	.

Number	As	B	Bi	Ca	Fe	La	Nb	Pb	Sb	Se	Sn	W	Zr	Other
CZ 02033 1g	.	0.0034	0.005	.	.	.	.	0.016	.	.	0.028	0.015	(0.004)	.
CZ 20034 13c	(0.002)	.	.	.	.	.	.	.	(0.002)	.	0.014	(0.003)	(0.02)	.
CZ 02033 1e	.	0.0036	(0.002)	.	.	.	.	0.007	.	.	0.032	0.021	(0.007)	Zn: 0.009
CZ 02033 1c	.	0.0005	0.016	.	.	.	.	0.006	.	.	0.032	0.015	Zn:0.001	.
CZ 20034 14c	0.035	0.0123	.	.	.	.	.	.	0.020	.	0.025	(0.003)	0.013	Zn: 0.010
CKD 247C (U)	0.012	0.000	0.007	Zn:0.018	(92.6)	0.023	0.048	(0.002)	0.005	(0.000)	0.040	(0.002)	0.009	last of stock
CZ 20034 13a	(0.002)	.	.	.	.	.	.	.	(0.002)	.	0.014	(0.003)	0.029	.
CZ 20034 13b	(0.002)	.	.	.	.	.	.	.	(0.002)	.	0.014	(0.003)	0.023	.
CKD 247B	0.010	0.000	0.007	.	(92.7)	0.019	0.052	(0.002)	0.005	(0.000)	0.038	(0.002)	0.009	Zn: 0.012
VS ChG 24	.	.	.	.	.	.	.	.	0.009	.	0.077	.	.	.
Y 2863-9	(0.041)	0.153	.	.	.	.	0.11	(0.093)	(0.116)	.	(0.124)	.	.	.
VS ChM5/1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SCRM 667/13	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VS ChM6/1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VS ChM8/1	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VS ChM13	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SCRM 669/14	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CKD 245B (U)	0.006	0.003	0.009	.	(92.5)	(0.00)	0.029	0.020	0.052	(0.029)	0.076	0.020	0.004	.
CKD 245A	0.002	0.007	0.008	.	(92.7)	(0.00)	(0.001)	0.015	0.050	(0.036)	0.076	0.021	0.003	last
VS ChG 26	.	.	.	.	.	.	.	.	.	.	0.031	.	.	.
VS ChM10	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SRM C1137a	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CKD 246B	0.003	0.000	(0.001)	.	(92.6)	0.003	(0.001)	(0.002)	0.004	(0.00)	0.002	(0.011)	0.000	.
SRM C2424	.	(0.002)	.	.	.	0.0011	.	.	.	.	.	.	.	.
VS ChM9	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VS ChM11	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Y 2863-7	(0.021)	0.100	.	.	.	.	0.041	(0.0025)	(0.010)	.	(0.0073)	.	.	.

BS: 28-34 mm Ø x 17-35 mm      CKD 24x: 37 mm x 37 mm x ~13-20 mm      SCRM: 48 mm x 42 mm x 12 mm      VS: ~39 mm Ø x ~39 mm  
 CZ: 40 mm Ø x 18 mm      SRM: 32 mm Ø x 19 mm      Y: 30 mm Ø x 30 mm

**RM CAST IRON WITH YOUR CHOICE OF MAGNESIUM LEVELS** each unit: 2 pcs mushroom 43 mm Ø x 5 mm

Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mg	Al	Ce	Co	Sn	Ti	V	Zn	Other
CTIF 6134	3.70	0.25	0.030	<0.01	1.60	0.020	2.00	0.040	*	.	<0.03	.	.	.	.	.	.
CTIF 8532	3.7	0.288	0.05	.	2.6	0.0443	0.888	0.04	*	.	<0.025	.	0.0303	0.02	0.07	.	.
CTIF 6135	3.6	0.38	0.0130	(0.003)	0.9	0.0219	1.98	0.04	*	(0.006)	.	0.037	.	0.007	0.0155	.	.
CTIF 4500	3.38	0.60	0.059	(0.002)	1.97	.	1.45	0.014	*	0.033	0.023	0.065	.	.	.	.	.
CTIF 5781	3.35	0.26	0.030	(0.0025)	2.50	0.0061	0.83	0.040	*	.	.	(0.004)	.	0.0208	0.0150	.	.
CTIF 4497	3.12	0.605	0.043	(<0.002)	2.66	0.048	1.90	0.040	*	.	.	.	0.094	.	0.031	0.44	.
CTIF 7160	3.1	0.57	0.05	(0.001)	2.4	0.08	1.0	(0.1)	*	(0.02)	0.02	0.09	.	0.013	0.018	.	As: 0.009
CTIF 5037	3.04	0.76	0.043	(0.0025)	3.40	.	0.64	0.014	*	.	.	.	.	0.029	.	.	.
CTIF 3601B	3.0	0.35	0.037	(0.005)	2.1	0.019	1.08	0.029	*	.	<0.01	.	.	0.016	(0.005)	<0.05	Pb:(<0.002)
CTIF 8018	3.0	0.7	0.07	(0.0015)	3.0	0.08	0.127	0.09	*	0.02	(<0.02)	.	0.07	0.06	0.39	.	Sb:(0.01)
CTIF 6736	2.8	0.65	0.012	(0.002)	1.6	0.0258	1.7	0.03	*	.	.	.	.	0.008	(0.03)	.	.
CTIF 5783	2.55	0.2	0.0266	(0.003)	2.3	0.110	1.23	0.05	*	.	.	0.0074	.	0.015	0.0127	.	As: 0.0016

Magnesium level available in the below samples. X = available

For Mg Range	Order Suffix	3601B	4497	4500	5037	5781	5783	6134	6135	6736	7160	8018	8532
<0.005	<0.005	X	.	.	.	X	X	.	.	.	.	X	.
0.005 - 0.009	0.005	X	.	.	X	X	X	.	.	X	.	X	X
0.010 - 0.014	0.01	X	.	.	X	X	X	.	.	X	X	X	X
0.015 - 0.024	0.02	X	.	.	X	X	X	.	X	X	X	X	X
0.025 - 0.034	0.03	.	.	.	X	X	X	.	X	X	X	X	X
0.035 - 0.044	0.04	.	.	.	X	X	X	.	X	X	X	X	X
0.045 - 0.054	0.05	.	.	.	X	X	X	.	X	X	X	X	X
0.055 - 0.064	0.06	.	X	X	.	X	X	.	X	X	X	X	X
0.065 - 0.074	0.07	.	X	X	.	X	X	.	X	X	X	X	X
0.075 - 0.084	0.08	.	X	X	.	X	X	X	X	X	X	X	X
0.085 - 0.094	0.09	.	X	X	.	X	X	X	X	X	X	X	X
0.095 - 0.104	0.10	.	.	.	.	.	.	X	X	X	X	X	X
0.105 - 0.114	0.11	.	.	.	.	.	.	X	X	X	X	X	X
0.115 - 0.124	0.12	.	.	.	.	.	.	X	X	X	X	X	X
0.125 - 0.134	0.13	.	.	.	.	.	.	X	X	X	X	X	X
0.135 - 0.144	0.14	.	.	.	.	.	.	X	X	X	X	X	X
0.145 - 0.154	0.15	.	.	.	.	.	.	.	.	.	X	.	.
0.155 - 0.164	0.16	.	.	.	.	.	.	.	.	.	X	.	.
0.165 - 0.174	0.17	.	.	.	.	.	.	.	.	.	X	.	.
0.175 - 0.184	0.18	.	.	.	.	.	.	.	.	.	X	.	.

The above cast iron samples can be ordered with your choice of Magnesium. Examples:  
to order CTIF 6736 with Mg 0.035 - 0.044 then order as part number CTIF 6736 0.04  
to order CTIF 8018 with trace Mg, order as part number CTIF 8018 <0.005

## CAST IRON WITH C &gt; 2.75%

## CONTINUED ON THE NEXT PAGE

# = Class, 1 = CRM and 2 = RM

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Co	Mo	Nb	Sn	Ti	V	Zn	
1	CZ 02033 4e	4.45	0.034	0.023	0.006	0.090	0.005	0.049	0.030	(0.003)	0.033	0.002	.	(0.001)	0.011	0.015	.	
1	SCRM 672/1	4.322	0.474	0.198	0.036	0.143	0.100	0.083	0.0186	0.0102	0.139	0.117	.	0.0047	0.0373	0.0988	.	
1	CZ 02033 4d	4.19	0.112	0.050	0.041	0.259	0.084	0.063	0.056	0.007	(0.003)	0.024	.	(0.001)	0.009	0.012	0.009	
1	SCRM 659/9	4.174	1.010	0.0215	0.0372	1.361	.	.	.	.	.	.	.	.	.	.	.	
1	Y 2582-7	4.13	2.06	0.306	0.111	1.85	.	0.026	0.157	.	.	.	.	.	0.399	0.821	.	
1	CZ 02033 4c	4.06	0.250	0.054	0.038	0.423	0.085	0.084	0.080	0.005	0.035	0.002	.	0.002	0.010	0.015	0.016	
2	BS CC-14	(4.04)	(0.01)	0.016	0.003	0.64	0.021	0.074	0.031	0.006	0.036	(0.003)	.	0.002	0.004	0.021	.	
1	DSZU CH04	4.01	1.77	0.074	0.018	0.73	0.55	0.273	0.100	0.014	(0.05)	(0.004)	(0.005)	(0.002)	0.025	(0.004)	.	
1	DSZU CH05	3.99	2.23	0.119	0.039	0.46	0.61	0.85	1.63	(0.002)	(0.07)	0.109	(0.3)	(0.01)	0.070	0.200	.	
1	CZ 02033 4b	3.95	0.145	0.041	0.046	0.252	0.062	0.023	0.049	0.003	0.005	0.005	.	0.001	0.006	0.004	0.008	
1	Y 2582-6	3.93	1.46	0.168	0.124	0.99	.	0.094	0.387	.	.	(0.112)	.	.	0.105	0.506	.	
1	VS ChG 2/9	3.93	0.456	0.513	0.078	0.387	0.082	.	0.060	.	.	.	.	.	0.080	0.049	.	
1	DSZU CH06	3.88	0.85	0.050	0.050	0.28	1.03	1.23	(2.8)	0.025	(0.07)	0.29	(0.05)	(0.03)	0.33	0.205	.	
1	CZ 20034 16c	3.87	1.311	0.173	0.0243	0.95	0.345	0.376	0.332	0.004	0.006	0.195	.	0.125	0.057	0.027	0.017	
1	CZ 20034 16a	3.80	1.292	0.171	0.0266	1.00	0.332	0.390	0.374	0.007	0.010	0.203	.	0.125	0.0763	0.021	0.019	
1	CZ 20034 16b	3.78	1.327	0.170	0.0236	1.00	0.332	0.388	0.378	0.007	0.010	0.202	.	0.121	0.070	0.029	0.020	
1	VS ChG 32	3.74	1.90	0.061	0.018	0.60	0.171	.	0.031	.	.	0.113	.	0.060	0.040	0.294	.	
1	Y 2582-4	3.70	0.857	0.087	0.076	0.451	.	0.032	0.117	.	.	(0.031)	.	.	0.030	0.158	.	
1	Y 451043-10	3.69	0.49	0.063	0.049	1.50	0.34	0.23	0.47	.	.	0.22	.	.	0.11	.	.	
1	11X HPC5A	3.68	1.028	0.246	0.223	1.175	.	.	1.42	.	.	.	.	.	.	.	.	
1	Y 2582-5	3.67	0.596	0.072	0.117	0.183	.	0.502	0.171	.	.	(0.68)	.	.	0.066	0.335	.	
1	VS ChG 1/9	3.61	1.12	0.184	0.038	1.13	0.041	.	0.017	.	.	.	.	.	0.014	0.006	.	
1	CZ 02033 7b	3.61	0.304	0.021	0.020	1.82	0.036	1.28	0.536	0.022	0.050	0.96	.	.	0.015	0.007	.	
1	CZ 02033 7c	3.55	0.389	0.028	0.026	1.73	0.016	1.26	0.542	0.040	0.048	0.966	.	(0.004)	0.026	0.067	.	
1	DSZU CH03	3.54	0.40	0.023	0.034	0.57	0.194	0.187	0.612	0.035	(0.05)	(0.019)	(0.010)	(0.004)	0.059	0.009	.	
1	VS ChG 3/9	3.54	0.387	0.037	0.053	0.516	0.123	.	0.100	.	.	.	.	.	0.125	0.096	.	
1	VS ChG 2/7	3.53	1.21	0.044	0.029	1.82	0.348	0.022	0.162	0.008	.	0.147	.	0.115	0.056	0.160	.	
1	SCRM 660/10	3.522	0.398	0.143	0.1089	1.719	.	.	.	.	.	.	.	.	.	.	.	
1	VS ChG 5/9	3.51	0.60	0.104	0.036	0.84	0.037	.	0.307	.	.	.	.	.	(0.1)	0.441	.	
1	11X C10C	3.48	0.696	0.103	0.050	2.10	1.54	2.673	0.302	0.104	.	0.335	.	0.0458	0.0709	0.0589	.	
1	Y 2863-5	3.47	0.78	0.564	0.070	0.89	0.365	0.62	1.53	.	.	0.67	.	.	0.133	0.129	.	
1	11X C2U	3.414	1.203	0.268	0.093	1.081	0.1085	1.702	0.882	0.053	0.226	0.111	(0.030)	0.046	0.094	0.314	.	
1	CZ 02033 8c	3.41	0.408	0.168	0.058	1.93	0.158	0.102	0.125	0.004	0.030	0.041	.	0.067	0.022	0.015	.	
1	11X C3AB	3.408	0.447	0.451	0.201	0.849	0.295	3.20	2.02	0.0090	0.241	0.216	(0.19)	0.209	0.040	0.692	0.0389	
1	VS CHL1/1	3.39	0.53	0.048	0.029	1.32	0.344	0.410	0.264	.	0.017	0.036	.	.	0.061	0.073	.	
1	11X HPC3J	3.38	1.287	2.01	0.0473	1.63	.	2.18	1.48	.	.	0.120	.	.	.	.	.	
1	VS ChG 1/5	3.38	1.09	0.160	0.029	1.04	(0.04)	.	(0.08)	.	.	.	.	.	0.005	0.050	.	
1	VS ChG 35	3.34	1.23	0.102	0.021	0.617	0.090	2.15	0.233	.	.	0.027	.	.	0.022	0.043	.	
1	KUT 120	3.34	0.59	0.059	0.18	1.84	.	.	.	.	.	.	.	.	.	.	.	
1	NCS HS11783	3.33	0.756	0.083	0.090	1.73	0.666	0.304	0.386	.	.	0.238	.	0.066	0.057	0.174	.	
1	SCRM 658/11	3.278	0.502	0.177	0.067	1.933	.	.	.	.	.	.	.	.	.	.	.	
1	Y 2863-3	3.32	1.27	0.115	0.049	2.27	0.62	2.01	0.49	.	.	0.313	.	.	0.176	0.45	.	
1	KUT 121	3.32	0.61	0.135	0.17	(1.86)	.	.	.	.	.	.	.	.	.	.	.	
1	KUT 205	3.32	0.80	0.025	(0.010)	1.88	0.81	0.61	0.64	.	.	1.79	.	(0.035)	.	.	.	
1	KUT 206	3.32	0.75	0.027	(0.010)	1.84	1.01	0.21	0.12	.	.	2.14	.	(0.107)	.	.	.	
1	KUT 122	3.31	0.61	0.22	0.20	1.72	.	.	.	.	.	.	.	.	.	.	.	
1	KUT 123	3.30	0.69	0.31	0.074	(1.87)	.	.	.	.	.	.	.	.	.	.	.	
1	NCS HS11784	3.30	0.528	0.78	0.031	2.68	0.015	0.024	0.812	(0.0012)	.	0.142	(0.0012)	0.0005	0.084	0.020	.	
1	Y 2582-3	3.29	1.22	0.045	0.056	0.689	.	0.046	0.030	.	.	.	.	.	0.043	0.071	.	
1	11X HPC1H	3.29	0.620	0.808	0.0035	3.27	.	.	1.056	.	.	0.060	.	.	.	.	.	
#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Co	Mo	Nb	Sn	Ti	V	Zn	
1	SCRM 665/4	3.25	0.24	1.09	0.053	1.66	.	.	(1)	.	.	.	.	0.0766	0.040	(0.062)	0.359	0.009
1	11X C9D	3.24	1.886	0.069	0.0260	1.462	0.581	2.79	1.206	0.051	0.1301	0.155	.	0.040	(0.10)	0.169	.	
1	VS ChG 4/9	3.24	1.42	0.030	0.024	0.455	0.199	.	0.155	.	.	.	.	.	.	.	.	
2	BAS NCRM3	3.24	0.67	0.125	0.090	0.29	1.21	3.64	3.95	.	.	0.78	.	.	.	0.02	.	
1	11X HPC1G	3.22	0.499	0.75	0.0311	2.60	.	.	.	.	.	.	.	.	.	.	.	
1	NCS HS11782	3.21	1.09	0.088	0.035	1.64	0.042	0.014	0.061	.	.	0.0048	.	.	0.027	0.0079	.	
1	KUT 125	3.20	0.73	0.70	0.029	(1.87)	.	.	.	.	.	.	.	.	.	.	.	
1	VS ChG 31	3.19	0.97	0.047	0.043	1.60	0.281	.	0.156	.	.	0.0069	.	0.013	0.0063	0.0035	.	
1	NCS HS11785	3.19	0.482	0.79	0.030	2.52	0.021	0.031	0.817	(0.0030)	.	0.139	(0.0009)	0.0010	0.076	0.018	.	
1	DSZU CH02	3.18	1.09	0.007	0.0116	1.35	0.038	0.658	0.59	0.026	(0.06)	0.224	(0.4)	(0.014)	0.161	(0.005)	.	
1	VS ChM 12	3.17	1.00	0.030	0.007	3.10	0.062	1.65	0.039	0.050	.	.	.	.	0.013	0.0027	.	
1	SCRM 671/1	3.165	0.811	0.108	0.0503	0.868	.	0.0627	0.0609	0.030	0.098	0.0259	.	0.0103	0.0407	0.0122	.	
1	KUT 126	3.16	0.81	1.41	0.016	1.90	.	.	.	.	.	.	.	.	.	.	.	
1	KUT 202	3.16	0.81	0.024	(0.010)	1.77	0.24	2.07	2.36	.	.	0.44	.	(0.21)	.	.	.	
1	KUT 204	3.15	0.80	0.023	(0.009)	1.79	0.64	1.09	1.22	.	.	1.38	.	(0.215)	.	.	.	
1	CZ 02033 6a	3.14	1.22	0.077	0.032	3.37	0.225	0.023	1.40	0.022	.	0.005	.	0.119	0.066	0.300	.	
1	KUT 127	3.14	0.79	1.55	0.014	1.81	.	.	.	.	.	.	.	.	.	.	.	
1	KUT 203	3.14	0.79	0.024	(0.009)	1.78	0.43	1.63	1.79	.	.	0.91	.	(0.16)	.	.	.	
1	CZ 02033 6c	3.11	1.25	0.097	0.019	3.25	0.273	0.021	1.33	0.024	0.005	0.006	.	0.131	0.107	0.192	.	
1	CZ 02033 7a	3.11	0.321	0.043	0.019	1.83	0.022	1.29	0.479	0.029	0.044	1.07	.	.	0.027	0.005	.	
1	SCRM 653/4	3.10	0.11															

## CAST IRON WITH C &gt; 2.75%

## CONTINUED FROM THE PREVIOUS PAGE

analysis in mass % except \* = mg/kg

Number	As	B	Bi	Ca*	Ce	La	Mg	N	Pb	Sb	Se	Te	W	Zr	Units
CZ 02033 4e	.	.	(0.002)	.	.	.	.	.	.	(0.002)	.	.	.	.	40 mm Ø x 18 mm
SCRM 672/1	0.0079	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm x 37 mm x 10 mm
CZ 02033 4d	(0.012)	(0.0001)	(0.002)	.	.	.	.	.	.	0.007	.	.	.	.	40 mm Ø x 18 mm
SCRM 659/9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
Y 2582-7	0.043	.	.	.	.	.	.	.	.	.	.	.	.	.	30 mm Ø x 30 mm
CZ 02033 4c	.	.	.	.	.	.	.	.	0.003	(0.001)	.	.	.	.	40 mm Ø x 18 mm
BS CC-14	(<0.001)	(0.0003)	(<0.0005)	11	(0.002)	(0.0007)	(0.024)	.	0.0002	(0.001)	.	0.005	(0.003)	(0.002)	32 mm Ø x 17 mm last
DSZU CH04	.	(0.0007)	.	(7)	.	.	(0.0001)	.	(0.007)	.	.	.	(<0.0002)	.	~30 mm x ~35 mm
DSZU CH05	.	(0.03)	.	(20)	.	.	(0.001)	.	.	.	.	.	.	.	~30 mm x ~35 mm
CZ 02033 4b	.	.	.	.	.	.	.	.	0.004	(0.001)	.	.	.	.	40 mm Ø x 18 mm
Y 2582-6	0.0018	.	.	.	.	.	.	.	.	.	.	.	.	.	30 mm Ø x 30 mm
VS ChG 2/9	(0.003)	.	.	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
DSZU CH06	.	(0.02)	.	(10)	.	.	.	.	.	.	.	.	0.1	.	~35 mm x ~35 mm
CZ 20034 16c	(0.003)	0.020	.	.	.	.	.	.	0.015	0.010	.	.	0.015	(0.002)	40 mm Ø x 18 mm
CZ 20034 16a	0.005	0.018	.	.	.	.	.	.	0.006	0.011	.	.	0.019	(0.002)	40 mm Ø x 18 mm
CZ 20034 16b	0.005	0.018	.	.	.	.	.	.	0.007	0.011	.	.	0.019	(0.002)	40 mm Ø x 18 mm
VS ChG 32	.	.	0.361	.	.	.	.	.	.	.	.	.	.	.	~35 mm Ø x ~20 mm
Y 2582-4	0.0017	.	.	.	.	.	.	.	.	.	.	.	.	.	30 mm Ø x 30 mm
Y 451043-10	.	.	.	.	.	.	.	.	.	0.12	.	.	.	.	30 mm Ø x 30 mm
11X HPC5A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 17 mm
Y 2582-5	0.0022	.	.	.	.	.	.	.	.	.	.	.	.	.	30 mm Ø x 30 mm
VS ChG 1/9	(0.003)	.	.	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
CZ 02033 7b	.	.	.	.	.	.	.	.	.	.	.	.	0.045	.	40 mm Ø x 18 mm
CZ 02033 7c	.	0.0008	(0.002)	.	.	.	.	.	.	.	.	(0.006)	0.037	.	40 mm Ø x 18 mm
DSZU CH03	(0.004)	(0.001)	.	(20)	.	.	(0.0001)	.	(0.01)	.	.	.	(0.006)	.	~30 mm x ~35 mm
VS ChG 3/9	(0.003)	.	.	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
VS ChG 27	.	.	.	.	.	.	.	.	.	0.029	.	.	.	.	~40 mm Ø x ~40 mm
SCRM 660/10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
VS ChG 5/9	(0.003)	.	.	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
11X C10C	0.0200	.	.	.	.	.	.	.	0.0050	0.0095	.	.	0.327	.	~40 mm Ø x ~15 mm
Y 2863-5	.	0.060	.	.	.	.	.	.	.	.	.	.	0.158	.	30 mm Ø x 30 mm
11X C2U	0.0288	0.0213	0.0055	.	.	.	.	0.0110	0.023	0.104	0.0199	.	0.062	.	~40 mm Ø x ~15 mm
CZ 02033 8c	(0.006)	.	0.009	.	.	.	.	.	.	0.008	0.014	.	.	.	40 mm Ø x 18 mm
11X C3AB	0.098	0.0054	0.0144	.	.	.	.	0.0095	0.022	0.245	0.0193	.	0.0520	.	~40 mm Ø x ~15 mm
VS ChL1/1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
11X HPC3J	.	.	.	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
VS ChG 1/5	(0.002)	.	.	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~40 mm last
VS ChG 35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~40 mm
KUT 120	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
NCS HS11783	0.0085	.	.	.	.	.	.	.	.	0.142	.	.	.	.	31 mm Ø x 28 mm
SCRM 658/11	.	.	.	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
Y 2863-3	.	0.056	.	.	.	.	.	.	.	.	.	.	.	.	30 mm Ø x 30 mm
KUT 121	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
KUT 205	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
KUT 206	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
KUT 122	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
KUT 123	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
NCS HS11784	0.0041	.	0.0083	.	.	.	.	.	0.0002	0.0007	.	.	.	.	31 mm Ø x 28 mm
Y 2582-3	0.009	.	.	.	.	.	.	.	.	.	.	.	.	.	30 mm Ø x 30 mm
11X HPC1H	.	.	.	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
Number	As	B	Bi	Ca*	Ce	La	Mg	N	Pb	Sb	Se	Te	W	Zr	Units
SCRM 665/4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
11X C9D	0.068	0.0049	.	.	.	.	.	.	0.0052	0.149	.	0.011	0.304	.	~40 mm Ø x ~15 mm
VS ChG 4/9	(0.003)	.	.	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
BAS NCRM3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm x 37 mm x 10 mm
11X HPC1G	.	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
NCS HS11782	0.0065	.	.	.	.	.	.	.	.	.	.	.	.	.	31 mm Ø x 28 mm
KUT 125	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
VS ChG 31	.	.	0.068	.	.	.	.	.	.	.	.	.	.	.	~35 mm Ø x ~20 mm
NCS HS11785	0.0049	.	0.013	.	.	.	.	.	0.0002	0.0005	.	.	.	.	31 mm Ø x 28 mm
DSZU CH02	.	(0.016)	.	(10)	.	.	(0.002)	.	.	.	.	.	.	.	~35 mm Ø x ~18 mm
VS ChM 12	.	.	.	.	.	.	(0.08)	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
SCRM 671/1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm x 37 mm x 12 mm
KUT 126	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
KUT 202	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
KUT 204	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
CZ 02033 6a	.	.	.	.	.	.	.	.	.	0.056	.	.	.	.	40 mm Ø x 18 mm
KUT 127	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
KUT 203	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
CZ 02033 6c	.	0.0024	.	.	.	.	.	.	.	(0.003)	0.044	.	0.007	.	40 mm Ø x 18 mm
CZ 02033 7a	.	.	.	.	.	.	.	.	.	.	.	.	0.022	.	40 mm Ø x 18 mm
SCRM 653/4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm last
VS ChG 30	.	.	0.082	.	.	.	.	.	.	.	.	.	.	.	~35 mm Ø x ~20 mm
BAS NCRM1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm x 37 mm x 10 mm
VS ChL3/1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
DSZU CH08	.	(0.08)	.	(10)	.	.	.	.	.	.	.	.	.	.	~35 mm x ~35 mm
VS ChG 39	.	.	.	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~40 mm
BS CC-11	0.006	0.0012	(<0.0005)	2	(0.001)	(0.001)	(0.013)	.	0.0007	0.14	.	(0.002)	(0.002)	(0.002)	32 mm Ø x 17 mm last
BAS LARM2	0.044	.	.	.	0.008	.	.	.	0.007	.	.	.	.	.	40 mm x 37 mm x 10 mm
BAS LARM4	.	.	.	.	0.008	.	.	.	0.018	.	.	.	.	.	40 mm x 37 mm x 10 mm
BAS LARM1	.	0.006	0.011	.	0.005	.	.	.	.	.	.	.	.	.	40 mm x 37 mm x 10 mm
BAS LARM5	0.018	0.0012	0.0010	.	.	.	.	.	0.0005	.	.	.	.	.	40 mm x 37 mm x 10 mm last
BAS LARM3	0.092	0.003	0.022	.	.	.	.	.	.	.	.	.	.	.	40 mm x 37 mm x 10 mm
Y 2863-4	.	0.041	.	.	.	.	.	.	.	.	.	.	.	.	30 mm Ø x 30 mm
BAS LARM5/1	.	0.0016	0.0012	.	.	.	.	.	<0.001	.	.	.	.	.	40 mm x 37 mm x 10 mm
BAS NCRM2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm x 37 mm x 10 mm
KUT 124	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
CZ 02033 6b	.	.	.	.	.	.	.	.	.	0.049	.	.	.	.	40 mm Ø x 18 mm
SCRM 662/4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
VS ChG 36	.	.	.	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~40 mm
SCRM 657/8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
CZ 20034 12b	0.024	0.047	0.006	.	.	.	.	.	0.009	0.046	.	.	0.007	(0.002)	40 mm Ø x 18 mm
SRM C1145a	(0.03)	(0.02)	.	.	.	.	.	.	0.0012	(0.04)	.	.	.	(0.002)	32 mm Ø x 19 mm
11X CLR **	0.01	0.04	0.003	**	Provisional Analysis	.	.	0.01	0.003	0.05	0.005	.	0.09	0.002	~40 mm Ø x ~15 mm
VS ChG34	.	.	0.223	.	.	.	.	.	.	.	.	.	.	.	~35 mm Ø x ~20 mm
SCRM 664/4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
CZ 20034 12a	0.022	0.036	0.005	.	.	.	.	.	0.007	0.046	.	.	0.011	(0.002)	40 mm Ø x 18 mm
NCS HS11786	0.0075	.	0.015	.	.	.	.	.	0.0003	0.0008	.	.	.	.	31 mm Ø x 28 mm
KUT 201	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30 x 30 x 13 mm
Number	As	B	Bi	Ca*	Ce	La	Mg	N	Pb	Sb	Se	Te	W	Zr	Units

CAST IRON WITH C < 2.75%

# = Class, 1 = CRM and 2 = RM

analysis in mass % except \* = mg/kg

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Co	Mo	Nb	Sn	Ti	V	Zn
1	VS ChL4/1	2.69	1.37	0.054	0.027	1.99	0.161	0.725	0.92	.	0.017	0.116	.	.	0.11	0.258	.
1	SRM C1291	2.67	1.14	0.028	0.032	1.34	0.26	4.34	2.78	.	.	0.32	.	.	.	0.031	.
1	VS ChG 6/9	2.65	0.83	0.54	0.027	0.53	0.34	.	0.241	.	.	.	.	.	0.028	0.130	.
1	DSZU CH01	2.61	0.258	0.012	0.0045	1.95	0.097	0.072	0.88	0.079	(0.06)	0.070	(0.010)	(0.05)	0.132	0.134	.
1	VS ChG 40	2.59	1.56	0.059	0.019	1.60	0.98	1.61	1.47	.	.	0.229	.	.	0.18	0.325	.
1	SCRM 661/4	2.56	0.30	0.84	0.068	2.96	.	.	(1)	.	.	.	.	.	.	.	.
1	SCRM 656/9	2.537	0.820	0.060	0.108	2.504	.	.	.	.	.	.	.	.	.	.	.
1	11X C5X	2.52	0.846	0.080	0.096	2.09	1.80	1.595	1.11	0.05	0.0558	0.471	0.0403	0.0371	0.056	0.089	0.019
1	11X C7N	2.51	1.942	0.0266	0.0101	0.829	0.075	0.0303	0.507	0.0127	0.0335	0.071	0.051	0.0114	0.022	0.036	0.0226
1	Y 2863-2	2.50	1.83	0.069	0.026	3.14	0.020	3.73	0.136	.	.	0.096	.	.	0.066	0.61	.
1	VS ChG 37	2.49	0.92	0.038	0.046	2.03	0.512	0.90	0.82	.	.	0.55	.	.	0.092	0.227	.
1	SCRM 673	2.47	0.133	0.328	0.006	1.72	0.023	0.147	0.037	0.028	0.053	0.006	.	0.0191	0.072	0.059	0.0004
1	CZ 20034 11b	2.44	0.382	0.271	0.140	3.67	0.130	0.082	1.178	0.067	0.005	1.144	.	0.074	0.041	0.182	.
1	VS ChG 38	2.43	0.302	0.386	0.084	2.30	1.20	0.162	1.98	.	.	0.046	.	.	0.105	0.119	.
1	CZ 02033 5b	2.42	0.812	0.033	0.073	1.32	0.031	0.188	0.061	0.062	.	0.089	.	.	0.007	0.005	.
1	VS ChL2/1	2.38	1.03	0.054	0.023	0.55	0.97	0.114	0.077	.	0.013	0.012	.	.	0.009	0.050	.
1	CZ 20034 11a	2.37	0.343	0.271	0.163	3.31	0.086	0.084	1.219	0.046	0.005	1.130	.	0.070	0.028	0.184	.
1	SCRM 652/4	2.34	1.19	0.071	0.129	0.878	.	.	(1)	.	.	.	.	.	.	.	.
1	DSZU CH07	2.33	1.36	0.090	0.064	3.01	0.35	0.403	0.34	0.036	.	0.66	(0.08)	(0.07)	0.150	0.52	.
1	CZ 02033 5a	2.30	0.804	0.035	0.100	1.26	0.014	0.096	0.054	0.060	.	0.100	.	.	0.008	0.005	.
1	CZ 02033 5c	2.30	0.704	0.027	0.091	1.40	0.013	0.188	0.085	0.103	0.013	0.104	.	(0.002)	0.008	0.054	.
1	SCRM 675	1.92	1.81	0.045	0.072	1.29	0.012	0.210	0.080	0.007	0.023	0.034	.	0.0062	0.007	0.178	0.0006
1	SCRM 655/4	1.90	0.44	0.180	0.076	2.110	.	.	(1)	.	.	.	.	.	.	.	.
1	11X C4R	1.86	0.493	0.108	0.098	2.92	0.345	2.02	1.531	0.040	0.0316	0.101	0.0373	0.0102	0.080	0.0208	0.0083
1	CKD 242A	1.84	0.060	0.039	0.036	3.06	0.055	0.039	0.029	0.036	0.002	1.13	0.013	0.010	0.19	0.37	(0.00)
1	CKD 241B (U)	1.84	0.060	0.007	0.123	3.15	0.011	0.021	0.683	0.003	0.004	0.61	0.003	(0.003)	0.001	0.080	0.000
1	Y 2863-1	1.78	2.41	0.021	0.009	3.62	0.022	4.77	0.031	.	.	0.038	0.0052	.	0.068	1.13	.

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Co	Mo	Nb	Sn	Ti	V	Zn
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Number	As	B	Bi	Ca*	Ce	Mg	N	Pb	Sb	Se	Te	W	Zr	Units
VS ChL4/1	.	.	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
SRM C1291	.	.	.	.	.	.	.	.	.	.	.	.	.	32 mm Ø x 19 mm
VS ChG 6/9	(0.003)	.	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
DSZU CH01	.	(0.03)	.	(10)	.	(0.0005)	.	.	.	.	.	(0.02)	.	~30 mm x ~35 mm
VS ChG 40	.	.	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~40 mm
SCRM 661/4	.	.	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
SCRM 656/9	.	.	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
11X C5X	0.0199	0.011	0.0108	.	.	.	0.0171	0.0295	0.0265	0.005	0.0010	0.031	0.0050	~40 mm Ø x ~15 mm
11X C7N	0.0159	0.0097	0.0137	.	.	.	0.025	0.0106	0.025	.	.	0.066	(0.003)	40 mm Ø x 15 mm
Y 2863-2	.	0.0025	.	.	.	.	.	.	.	.	.	.	.	30 mm Ø x 30 mm
VS ChG 37	.	.	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~40 mm
SCRM 673	0.044	.	.	.	.	.	.	.	.	.	.	.	.	40 mm x 37 mm x 10 mm
CZ 20034 11b	0.005	0.0032	0.007	.	.	.	.	0.007	0.011	.	.	(0.005)	0.007	40 mm Ø x 18 mm
VS ChG 38	.	.	.	.	.	.	.	.	.	.	.	.	.	~40 mm Ø x ~40 mm
CZ 02033 5b	.	0.014	0.020	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 18 mm
VS ChL2/1	.	.	.	.	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~38 mm
CZ 20034 11a	0.005	0.0018	0.011	.	.	.	.	0.017	0.013	.	.	(0.005)	0.007	40 mm Ø x 18 mm
SCRM 652/4	.	.	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
DSZU CH07	.	(0.13)	.	(10)	.	(0.01)	.	.	.	.	.	.	.	~35 mm x ~35 mm
CZ 02033 5a	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 18 mm
CZ 02033 5c	.	0.0078	0.007	.	.	.	.	.	.	(0.002)	(0.010)	.	(0.009)	40 mm Ø x 18 mm
SCRM 675	0.035	.	.	.	.	.	.	.	.	.	.	.	.	40 mm x 37 mm x 10 mm
SCRM 655/4	.	.	.	.	.	.	.	.	.	.	.	.	.	48 mm x 42 mm x 12 mm
11X C4R	0.0050	0.0086	0.0144	Ag: 0.008	.	0.0078	0.019	0.015	0.021	.	.	0.120	0.0031	~40 mm Ø x ~15 mm
CKD 242A	0.015	0.008	(0.015)	.	(0.00)	0.000	.	(0.012)	0.007	.	(0.08)	(0.007)	(0.000)	37mm x 37mm x 18 or 20mm
CKD 241B (U)	0.002	0.001	.	.	.	0.000	0.0053	0.001	0.139	.	.	.	0.001	last
Y 2863-1	.	0.0024	.	.	.	.	.	.	.	.	.	.	.	37 mm x 37 mm x ~18mm
														30 mm Ø x 30 mm

Number	As	B	Bi	Ca*	Ce	Mg	N	Pb	Sb	Se	Te	W	Zr	Units
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#	Number	ALLOYED CAST IRON					# = Class, where 1 = CRM and 2 = RM					* Provisional Analysis					
		C	Mn	P	S	Si	Cu	Ni	Cr	Al	Mo	Pb	Sn	Ti	V	Mg	N
2	BAS NCRM5	3.70	0.27	0.025	0.015	1.15	0.204	6.74	10.44	.	0.10	.	.	.	0.06	.	.
1	SRM C1292	3.47	0.55	0.049	0.016	0.99	0.36	5.94	11.4	.	0.25	.	.	0.041	.	.	
2	BAS CCRM5/2	3.04	0.30	0.029	0.010	0.10	0.23	0.06	30.5	0.15	0.83	.	.	0.009	0.11	.	
1	Y 451052-1	3.31	1.54	0.369	0.0047	0.098	0.449	2.57	1.17	.	1.47	.	.	0.952	.	.	
1	BS PM15	3.54	0.416	0.0198	0.0127	0.912	0.142	0.203	5.33	0.0025	1.22	(0.00001)	0.0034	0.0029	14.79	(0.0002)	0.111
1	VS CHG41	3.53	0.323	0.032	0.015	1.08	0.494	5.44	8.58	.	0.603	.	.	0.255	0.204	.	
1	Y 451052-7	3.13	0.201	0.024	0.116	2.48	0.154	0.129	31.26	.	0.086	.	.	0.033	0.087	.	
1	11X 15309S	3.05	1.506	0.040	0.086	1.398	0.505	0.919	23.26	.	0.249	.	.	0.0156	0.056	.	
1	SRM C1290	3.00	0.60	0.020	0.010	0.371	0.065	0.917	30.5	.	(0.041)	.	.	0.442	.	.	
1	Y TSK205	3.03	0.16	0.041	0.088	1.65	0.35	0.37	30.35	.	0.22	.	.	0.077	.	0.108	
1	Y 451054-2	3.00	1.42	0.133	0.016	0.56	0.324	1.43	7.23	.	2.48	.	.	0.015	0.88	.	
1	NCS HS11788	2.97	1.62	0.191	0.010	3.29	0.51	17.77	2.56	(0.0023)	0.0013	.	0.0003	0.043	0.017	.	
1	Y 451052-2	2.96	1.24	0.211	0.0077	0.491	1.57	1.99	9.75	.	2.17	.	.	0.300	0.669	.	
1	BAS NIRM5/1	2.95	1.01	0.103	0.005	1.50	0.21	21.7	0.51	.	.	.	.	.	0.055	.	
2	BAS CCRM4/2	2.93	0.58	0.049	0.042	0.45	0.53	0.58	21.93	<0.005	1.15	.	.	0.008	0.11	.	
2	11X 20003K	2.91	1.53	0.174	0.007	3.03	0.52	17.8	2.53	.	.	.	.	.	.	.	
1	11X S/1 Cr3J	2.91	0.861	0.072	0.023	1.07	9.01	14.53	1.61	.	.	.	.	.	.	.	
2	11X 20001J	2.90	0.58	0.005	0.143	1.01	0.01	21.4	1.50	.	.	.	.	.	.	.	
2	11X S/2 Cr1E	2.83	1.68	0.31	0.011	2.85	0.02	16.5	2.48	.	.	.	.	.	.	.	
1	11X 0331-1J	2.82	1.646	0.069	0.13	2.50	7.59	12.43	0.607	0.122	0.120	0.0327	0.0439	0.1099	.	.	
2	11X S/2 Cr4D	2.82	0.97	0.049	0.010	2.59	0.24	20.7	1.10	.	.	.	.	.	.	.	
2	BAS NIRM2/1	2.81	2.08	0.129	0.010	1.50	5.98	13.95	1.48	.	.	.	.	.	0.050	.	
1	Y 451054-3	2.73	1.09	0.105	0.036	0.99	0.451	1.20	12.97	.	2.08	.	.	0.045	0.66	.	
1	11X 15310A	2.71	1.45	0.051	0.0278	0.892	2.64	5.66	21.22	.	0.980	.	.	0.071	.	.	
1	VS CHG45	(2.7)	1.01	0.096	0.047	2.96	0.040	0.60	32.65	.	0.198	.	.	0.011	0.111	.	
2	11X 20002J	2.67	1.06	0.060	0.045	2.04	0.30	20.0	2.03	.	.	.	.	.	.	.	
2	BAS NCRM4	2.66	0.40	0.203	0.012	2.13	0.68	5.34	7.94	.	0.57	.	.	0.11	.	.	
1	NCS HS11787	2.65	1.08	0.067	0.037	2.07	0.306	19.84	1.98	(0.085)	0.0014	.	0.0054	0.022	0.0096	.	
1	11X 0331-2K	2.64	1.272	0.049	0.119	2.32	6.47	14.26	1.025	0.191	0.0644	0.0205	0.0205	0.14	0.0158	.	
2	11X S/3 Cr1D	2.61	0.7	0.046	0.011	2.52	0.19	31.7	0.15	.	.	.	.	.	.	.	
1	Y TSK201	2.56	1.07	0.253	0.023	0.66	1.53	2.44	10.14	.	2.56	.	.	0.42	.	0.029	
2	BAS NIRM3	2.51	0.51	0.208	0.096	2.21	1.00	17.8	2.43	.	.	.	.	.	.	.	
2	11X S/3 Cr3B	2.49	0.66	0.053	0.050	2.44	0.23	29.4	4.06	.	.	.	.	.	.	.	
1	11X 15295R *	2.48	0.5	0.05	0.04	0.59	0.19	0.3	27.3	0.19	0.39	.	0.05	0.2	.	.	
2	BAS NIRM6	2.44	4.00	0.217	0.062	2.43	0.10	26.7	1.07	.	0.45	.	.	.	.	.	
1	Y 451052-3	2.40	1.06	0.115	0.015	0.821	0.953	1.55	13.30	.	0.869	.	.	0.171	0.482	.	
2	BAS CCRM3/2	2.37	0.92	0.073	0.087	1.21	1.09	1.35	18.78	0.102	1.58	.	.	0.015	0.042	.	
1	Y 451054-4	2.31	0.725	0.071	0.046	1.40	0.739	0.914	17.60	.	1.44	.	.	0.084	0.46	.	
2	11X S/3 Cr2C	2.30	0.85	0.045	0.010	2.59	0.21	31.0	2.62	.	.	.	.	.	.	.	
1	11X 15294V *	2.3	0.46	0.09	0.03	0.4	0.13	0.65	30.8	0.18	0.32	0.008	0.06	0.001	0.12	.	
1	VS CHG42	2.27	2.43	0.022	0.017	0.478	1.09	0.149	14.45	.	1.90	.	.	0.38	.	.	
1	CKD 251	2.25	1.97	0.015	0.015	1.14	0.38	19.7	1.07	(0.02)	0.12	(0.009)	(0.01)	(0.005)	(0.02)	0.022	
1	Y TSK200	2.11	0.82	0.319	0.022	0.17	1.86	3.22	4.97	.	3.50	.	.	0.60	.	0.021	
2	BAS NIRM1	2.05	6.72	0.055	0.005	3.15	0.20	11.80	0.246	.	.	.	.	.	0.021	.	
2	BAS NIRM7	2.05	0.71	0.058	0.020	3.05	0.52	32.9	3.53	.	0.99	.	.	.	0.019	.	
1	Y 451052-4	2.00	0.803	0.090	0.025	1.16	0.738	1.07	18.28	.	0.598	.	.	0.087	0.380	.	
2	BAS NIRM4	1.97	2.37	0.051	0.008	3.03	0.52	20.2	3.56	.	.	.	.	.	0.014	.	
1	NCS HS11789	1.97	1.08	0.048	0.076	2.58	6.39	17.80	2.51	0.061	0.062	0.015	0.014	0.011	0.0093	.	
2	BAS CCRM2/1	1.92	1.11	0.097	0.079	1.18	1.59	1.61	14.13	0.054	2.44	.	.	0.070	0.063	.	
2	BAS CCRM1/1	1.83	1.45	0.132	0.099	1.53	2.01	2.03	11.18	0.117	3.05	.	.	0.096	0.040	.	
1	Y 451054-5	1.83	0.466	0.043	0.091	1.80	0.904	0.517	23.40	.	0.739	.	.	0.068	0.26	.	
1	Y TSK202	1.81	1.16	0.201	0.057	2.00	1.10	1.91	15.42	.	2.20	.	.	0.33	.	0.075	
1	Y 451052-5	1.48	0.579	0.041	0.058	1.37	0.583	0.708	22.55	.	0.359	.	.	0.056	0.314	.	
2	BAS NIRM8/2	1.45	1.58	0.105	0.014	5.61	0.23	35.3	2.47	.	0.77	.	.	.	0.033	.	
1	Y 451054-6	1.45	0.254	0.024	0.123	2.38	1.15	0.216	28.96	.	0.213	.	.	0.084	0.13	.	
2	BAS NIRM8/1	1.34	1.60	0.109	0.010	5.42	0.23	35.2	2.34	.	0.75	.	.	.	0.043	.	
1	VS CHG44	1.24	0.87	(1.2)	0.076	1.50	2.27	0.175	25.44	.	0.035	.	.	0.104	0.079	.	
1	Y TSK203	1.23	0.68	0.117	0.044	0.46	0.75	1.55	19.93	.	1.58	.	.	0.22	.	0.094	
1	Y 451052-6	1.16	0.302	0.033	0.086	1.44	0.845	0.289	25.76	.	0.150	.	.	0.019	0.146	.	
1	Y TSK204	0.91	0.34	0.078	0.063	1.00	0.53	0.97	25.37	.	0.95	.	.	0.14	.	0.114	

#	Number	C	Mn	P	S	Si	Cu	Ni	Cr	Al	Mo	Pb	Sn	Ti	V	Mg	N	
	Number	Ce	Co	Nb	W	Zr	Units					Other						
	BAS NCRM5	.	.	.	.	.	40 mm x 37 mm x 10 mm											
	SRM C1292	.	.	.	.	.	32 mm x 19 mm											
	BAS CCRM5/2	.	.	.	.	.	48 mm x 42 mm x 12 mm											
	Y 451052-1	B:0.177	.	0.018	0.015	.	30 mm x 30 mm											
	BS PM15	.	0.0330	0.014	0.109	(0.0005)	38 mm x 19+ mm					17025	Fe:[73.0]	As:0.0040	N:0.111	O:0.0129		
	VS CHG41	.	.	.	.	.	~35 mm x ~17 mm					last						
	Y 451052-7	B:0.015	.	0.010	0.175	.	30 mm x 30 mm											
	11X 15309S	.	0.032	0.0192	0.015	.	~40 mm x ~15 mm											
	SRM C1290	.	.	.	.	.	32 mm x 19 mm											
	Y TSK205	.	.	.	.	.	35 mm x 30 mm											
	Y 451054-2	.	.	.	.	.	30 mm x 30 mm											
	NCS HS11788	B:0.0008	(0.0063)	.	(0.0002)	.	31 mm x 28 mm					As: 0.014						
	Y 451052-2	B:0.142	.	0.182	1.99	.	30 mm x 30 mm											
	BAS NIRM5/1	0.016	.	0.15	.	.	48 mm x 42 mm x 12 mm											
	BAS CCRM4/2	.	.	.	.	.	48 mm x 42 mm x 12 mm											
	11X 20003K	.	.	.	.	.	40 mm x 15 mm											
	11X S/1 Cr3J	.	.	.	.	.	~40 mm x ~15 mm											
	11X 20001K	.	.	.	.	.	40 mm x 15 mm											
	11X S/2 Cr1E	.	.	.	.	.	40 mm x 15 mm											
	11X 0331-1J	.	0.1117	0.149	.	.	~40 mm x ~15 mm											
	11X S/2 Cr4D	.	.	.	.	.	40 mm x 15 mm											
	BAS NIRM2/1	0.015	.	.	.	.	48 mm x 42 mm x 12 mm											
	Y 451054-3	.	.	.	.	.	30 mm x 30 mm											
	11X 15310A	.	0.0709	.	0.137	.	40 mm x ~15 mm											
	VS CHG45	.	.	.	.	.												



## RM CAST IRON MUSHROOMS CONTINUED ON THE NEXT PAGE

typical analysis

each unit is one pair of 43 mm Ø x 5 mm mushroom discs

Number	C	Si	Mn	P	S	Cu	Ni	Cr	Al	Co	Mo	Sn	Ti	V	W
CTIF F019	4.04	1.05	1.05	0.032	0.057	.	.	.	.	.	.	.	.	.	.
CTIF F012	3.71	1.86	0.44	0.038	0.004	0.77	.	.	0.008	.	.	0.011	.	.	.
CTIF F08	3.6	1.04	0.37	0.107	0.021	0.215	0.30	0.30	.	.	0.005	0.05	0.055	0.014	.
CTIF FCR7	3.59	1.07	0.365	0.099	0.0427	0.704	0.947	33.65	.	.	2.62	.	.	.	.
CTIF F06	3.49	0.55	0.715	0.87	0.106	0.120	0.128	0.45	.	.	0.202	0.039	0.080	0.110	.
CTIF F010	3.5	0.67	1.05	0.20	0.101	0.114	0.118	0.38	.	.	0.20	.	0.1	0.08	.
CTIF NH3	3.47	0.85	0.175	0.36	0.024	0.031	2.53	1.76	.	.	0.73	.	.	.	.
CTIF F011	3.45	1.57	0.685	0.052	0.103	0.211	0.235	0.34	.	(0.013)	0.225	0.066	0.078	0.113	.
CTIF F018	3.43	1.24	0.590	1.34	0.136	0.049	0.140	0.170	.	.	0.179	0.046	0.057	0.102	.
CTIF NH7-1	3.43	0.95	0.63	0.035	0.022	0.105	5.53	9.02	.	.	.	.	.	.	.
CTIF FCR5	3.43	0.35	0.62	0.052	0.0175	1.02	2.69	28.5	.	.	3.27	.	.	.	.
CTIF FT2-1	3.39	1.415	0.78	0.045	0.095	0.01	0.070	0.030	.	.	.	.	0.100	0.405	.
CTIF NiMo1	3.22	2.585	0.200	0.0590	(0.0030)	0.376	2.165	0.0353	.	0.0205	0.457	0.0020	0.0190	0.0169	.
CTIF FL7	3.22	2.550	0.100	1.34	0.048	0.351	0.232	0.043	.	.	0.335	0.0291	0.0525	0.0796	.
CTIF FT3	3.2	1.55	0.345	0.063	0.051	0.015	0.092	0.685	.	.	.	.	0.2	0.016	.
CTIF NH7-2	3.2	1.20	0.91	0.034	0.0120	0.108	5.53	8.87	.	.	.	.	.	.	.
CTIF F05	3.2	0.7	0.2	1.30	0.027	0.12	0.172	0.3	.	.	0.41	0.109	0.04	0.14	.
CTIF NH9	3.13	1.24	0.65	0.087	0.029	0.203	4.11	11.70	.	.	0.059	.	.	.	.
CTIF NR Cu1	3.12	1.465	0.172	0.090	0.99	4.95	18.02	0.994	(0.095)	.	.	.	.	.	.
CTIF FL6	3.1	1.4	0.6	0.012	0.18	0.079	1.03	0.167	.	0.028	0.50	0.005	0.15	0.033	.
CTIF FL10	3.1	1.3	0.85	0.323	0.066	0.104	0.10	(0.07)	(0.03)	.	0.0335	0.028	0.045	0.048	(0.02)
CTIF FFA 1	3.090	0.0300	0.100	0.0022	0.0009	0.0622	0.0450	0.0710	.	0.0097	0.0109	.	0.0010	0.0010	.
CTIF NR 8S	3.05	1.41	4.39	0.124	.	0.071	14.20	0.191	.	.	.	.	.	.	.
CTIF F017	3.01	2.48	0.475	0.470	0.168	(0.006)	0.021	(0.016)	.	0.032	.	0.024	0.032	0.018	.
CTIF FAL 1	3.0	1.0	0.2	0.04	<0.001	0.2	0.06	0.04	2.1	.	0.015	.	0.01	.	.
CTIF NR 3L	2.99	3.05	0.72	0.088	0.052	0.26	21.58	2.97	.	.	.	.	.	.	.
CTIF NH1	2.98	1.35	0.90	0.060	0.105	1.99	1.38	0.83	.	.	1.45	.	.	.	.
CTIF NH8	2.98	0.80	0.57	0.052	0.076	0.065	8.16	5.03	.	.	0.125	.	.	.	.
CTIF NR 3S	2.92	2.91	0.77	0.024	.	0.33	24.63	3.05	.	.	.	.	.	.	.
CTIF FT1	2.9	2.12	0.71	0.12	0.025	0.012	0.11	0.057	.	.	.	0.067	0.19	0.525	.
CTIF NR 8L	2.89	1.70	5.19	0.054	0.030	0.075	13.33	0.165	.	.	.	.	.	.	.
CTIF NH4	2.84	0.49	0.28	0.12	0.022	0.09	3.60	2.46	.	.	0.30	.	.	.	.
CTIF F04	2.81	1.51	0.64	0.58	0.009	0.31	0.32	0.17	.	.	0.095	0.013	0.075	0.049	.
CTIF FCR2	2.86	1.07	0.740	0.137	0.055	0.135	1.87	11.8	.	.	3.88	.	.	.	.
CTIF FL5	2.8	2.3	0.4	0.02	(0.005)	0.5	0.05	0.35	.	0.010	0.01	0.07	0.01	0.01	.
CTIF FCR Ni3	2.74	0.69	0.47	0.036	0.011	.	11.05	31.65	.	.	.	.	.	.	.
CTIF NH6	2.70	2.28	0.355	0.066	0.036	0.115	7.06	6.60	.	.	0.11	.	.	.	.
CTIF F09	2.7	1.5	0.7	0.02	0.015	0.31	0.355	0.18	.	.	0.13	0.144	0.017	0.022	.
CTIF FL4	2.6	2.91	0.5	0.288	0.137	0.0168	0.061	0.45	.	.	0.090	0.011	0.0296	0.116	.
CTIF NR 1S	2.58	3.02	1.54	0.19	0.0015	0.11	20.60	2.00	.	.	.	.	.	.	.
CTIF NR 1L	2.50	3.00	1.34	0.125	0.10	0.49	25.87	1.74	.	.	.	.	.	.	.
CTIF NH2	2.50	1.81	1.04	0.047	0.058	1.02	1.78	1.26	.	.	1.01	.	.	.	.
CTIF NR Cu2	2.48	2.07	1.078	0.113	0.049	6.50	15.85	2.05	.	.	.	.	.	.	.
CTIF NR 4S	2.47	4.87	1.71	0.145	.	0.63	18.30	1.50	.	.	.	.	.	.	.
CTIF FCR4	2.47	1.40	2.05	0.097	0.066	1.32	0.571	24.2	.	.	2.16	.	.	.	.
CTIF FCR1	2.46	0.48	0.63	0.019	0.007	0.031	1.30	18.71	.	.	1.41	.	.	.	.
CTIF F07	2.45	0.675	0.70	0.84	0.085	0.125	0.15	0.455	.	.	0.26	.	0.065	0.13	.
CTIF NR 4L	2.41	5.89	1.495	0.155	0.010	0.758	15.90	1.403	.	.	.	.	.	.	.
CTIF NR 2S	2.32	1.43	0.530	0.062	.	0.210	36.3	0.51	.	.	.	.	.	.	.
CTIF NH5	2.31	0.31	0.24	0.115	0.04	0.035	4.90	2.85	.	.	0.017	.	.	.	.
CTIF FL3	2.3	2.1	0.27	0.729	(0.013)	0.102	0.553	0.107	.	.	0.106	0.111	0.05	0.049	.
CTIF NR 4G	2.24	5.60	1.72	0.11	(0.002)	0.64	21.30	1.40	.	.	.	.	.	.	.
CTIF NR 2G	2.25	1.47	0.380	0.0476	(0.003)	0.232	36.34	0.395	.	.	.	.	.	.	.
CTIF FL2	2.18	3.61	0.0400	0.049	0.082	0.0497	0.0238	0.440	(0.006)	0.0263	(0.004)	0.140	0.0750	0.201	.
CTIF FL1	2.1	3.2	0.80	0.118	0.0765	0.0195	0.245	0.06	.	(0.022)	0.038	0.305	0.020	0.015	.
CTIF F01	2.02	3.18	0.71	0.112	0.074	0.036	0.120	0.090	.	.	0.032	0.38	0.018	0.019	.
CTIF FCR Ni2	2.02	1.50	0.61	0.185	0.024	.	13.05	29.00	.	.	.	.	.	.	.
CTIF NR Cu3	1.94	3.12	0.60	0.046	0.016	8.05	13.3	3.50	.	.	.	.	.	.	.
CTIF NR 6S	1.82	2.44	0.99	0.019	.	0.03	30.75	1.06	.	.	.	.	.	.	.
CTIF NR 5L	1.77	2.99	1.207	0.037	0.083	0.48	33.89	0.27	.	.	.	.	.	.	.
CTIF NR 6L	1.76	2.07	0.70	0.031	0.063	0.020	30.37	3.49	.	.	.	.	.	.	.
CTIF NR 5S	1.67	1.97	1.23	0.035	.	0.50	27.05	0.24	.	.	.	.	.	.	.
CTIF FCR6	1.44	0.76	1.47	0.201	0.086	0.480	0.188	30.84	.	.	0.455	.	.	.	.
CTIF FCR Ni1	1.27	1.63	0.71	0.41	0.06	0.02	16.50	26.20	.	.	.	.	.	.	.
Number	C	Si	Mn	P	S	Cu	Ni	Cr	Al	Co	Mo	Sn	Ti	V	W

## CAST IRON MUSHROOMS

## CONTINUED FROM THE PREVIOUS PAGE

Number	As	B	Bs	Bi	Ce	N	Nb	Pb	Sb	Te	Zn
CTIF F019	.	.	.	.	.	.	.	.	.	0.0005	.
CTIF F012	.	.	.	.	.	.	.	.	.	.	.
CTIF F08	.	.	.	.	.	.	.	.	.	.	.
CTIF FCR7	.	.	.	.	.	.	.	.	.	.	.
CTIF F06	.	.	.	.	.	.	.	.	.	.	.
CTIF F010	.	.	.	.	.	.	.	.	.	.	.
CTIF NH3	.	.	.	.	.	.	.	.	.	.	.
CTIF F011	.	.	.	.	.	.	.	.	.	.	.
CTIF F018	.	.	.	.	.	0.0040	.	.	.	.	.
CTIF NH7-1	.	.	.	.	.	.	.	.	.	.	.
CTIF FCR5	.	.	.	.	.	.	.	.	.	.	.
CTIF FT2-1	.	.	.	.	.	.	.	.	.	.	.
CTIF NiMo1	.	.	.	.	.	.	.	.	.	.	.
CTIF FL7	(0.0266)	(0.010)	.	(0.010)	.	0.0035	.	.	.	.	.
CTIF FT3	.	.	.	.	.	.	.	.	.	.	.
CTIF NH7-2	.	.	.	.	.	.	.	.	.	.	.
CTIF F05	.	.	.	.	.	.	.	.	.	.	.
CTIF NH9	.	.	.	.	.	.	.	.	.	.	.
CTIF NR Cu1	.	.	.	.	.	.	.	.	.	.	.
CTIF FL6	.	0.008	.	.	.	.	.	.	.	.	.
CTIF FL10	(0.022)	.	(0.012)	(0.004)	.	.	(0.018)	(0.002)	(0.032)	(0.001)	(0.029)
CTIF FFA 1	0.0109	.	.	.	.	0.0125	.	.	.	.	.
CTIF NR 8S	.	.	.	.	.	.	.	.	.	.	.
CTIF F017	.	.	.	.	.	.	.	.	.	.	.
CTIF FAL 1	.	.	.	.	.	.	.	.	.	.	.
CTIF NR 3L	.	.	.	.	.	.	.	.	.	.	.
CTIF NH1	.	.	.	.	.	.	.	.	.	.	.
CTIF NH8	.	.	.	.	.	.	.	.	.	.	.
CTIF NR 3S	.	.	.	.	.	.	.	.	.	.	.
CTIF FT1	.	.	.	.	.	.	.	.	.	.	.

Number	As	B	Bs	Bi	Ce	N	Nb	Pb	Sb	Te	Zn
CTIF NR 8L	.	.	.	.	.	.	.	.	.	.	.
CTIF NH4	.	.	.	.	.	.	.	.	.	.	.
CTIF F04	.	.	.	.	.	.	.	.	.	.	last of stock
CTIF FCR2	.	.	.	.	.	.	.	.	.	.	.
CTIF FL5	.	(0.002)	.	(0.0005)	.	.	.	.	.	.	.
CTIF FCR Ni3	.	.	.	.	.	.	.	.	.	.	.
CTIF NH6	.	.	.	.	.	.	.	.	.	.	.
CTIF F09	.	.	.	.	.	.	.	.	.	.	.
CTIF FL4	(0.05)	.	.	(0.003)	.	0.007	.	.	.	.	.
CTIF NR 1S	.	.	.	.	.	.	.	.	.	.	.
CTIF NR 1L	.	.	.	.	.	.	.	.	.	.	.
CTIF NH2	.	.	.	.	.	.	.	.	.	.	.
CTIF NR Cu2	.	.	.	.	.	(0.0079)	.	.	.	.	.
CTIF NR 4S	.	.	.	.	.	.	.	.	.	.	.
CTIF FCR4	.	.	.	.	.	.	.	.	.	.	.
CTIF FCR1	.	.	.	.	.	.	.	.	.	.	.
CTIF F07	.	.	.	.	.	.	.	.	.	.	.
CTIF NR 4L	.	.	.	.	.	.	.	.	.	.	.
CTIF NR 2S	.	.	.	.	.	.	.	.	.	.	.
CTIF NH5	.	.	.	.	.	.	.	.	.	.	.
CTIF FL3	.	.	.	.	.	0.008	.	.	.	.	.
CTIF NR 4G	.	.	.	.	.	.	.	.	.	.	.
CTIF NR 2G	.	.	.	.	.	.	0.27	.	.	.	.
CTIF FL2	.	.	.	(0.0135)	.	.	.	.	.	.	.
CTIF FL1	.	.	.	.	.	.	.	.	.	.	.
CTIF F01	.	.	.	.	.	.	.	.	.	.	last of stock
CTIF FCR Ni2	.	.	.	.	.	.	.	.	.	.	.
CTIF NR Cu3	.	.	.	.	.	.	.	.	.	.	.
CTIF NR 6S	.	.	.	.	.	.	.	.	.	.	.
CTIF NR 5L	.	.	.	.	.	.	.	.	.	.	.
CTIF NR 6L	.	.	.	.	.	.	.	.	.	.	.
CTIF NR 5S	.	.	.	.	.	.	.	.	.	.	.
CTIF FCR6	.	.	.	.	.	.	.	.	.	.	.
CTIF FCR Nil	.	.	.	.	.	.	.	.	.	.	.

Number	As	B	Bs	Bi	Ce	N	Nb	Pb	Sb	Te	Zn
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ALLOY	ISO?	NUMBER	ALLOY	ISO?	NUMBER	ALLOY	ISO?	NUMBER
1.0812		ECRM 191-2D	17-4PH		BS 17-4PHA	316		JK 27A D
1.2344		ECRM 271-1D	17-4PH		BS 17-4PHB	316		NILAB 500HAD
1.2367		HRT FE2012-H	17-4PH		IARM 23D	316		SRM 1155A
1.2510		HRT FE2006-N	17-4PH		SRM C2400	316 H		CT 316
1.4765		ECRM 299-1D	17-7PH		13X PH17700	316 H		IARM 339A
1.5415		HRT FE2012-N	17-7PH 25(preceded 17025)		BS 192	316 L		13X 31603
1.6587		HRT FE2013-N	17-7PH 25(preceded 17025)		BS 192A	316 L	17025	BS 316D
1.7149	20MnCrS5	ECRM 187-2D	17-7PH		IARM 152C	316 L	17025	BS 316E
1.7160		ECRM 194-1D	182FM		BS 150	316 L		CZ SL-2A
1.8550		ECRM 129-3D	18Cr2Ni12Mn		CT ISO035A	316 L		IARM 163E
1.8519		HRT FE2010-N	201		BS 191	316 L		SS 466/2
1.8928		ECRM 194-2D	201		SRM 1297	316 Ti		ECRM 284-2D
1005	17025	BS LC-6	20Cb3		BS 187A	317 L		BS 317L
1005		ECRM 064-2D	20Cb3		CT 20 Cb-3	317 L	25(pre-17025)	BS 9941
1005		RM Fe 1/4	20MnCr4		ECRM 197-1D	317 L	25(pre-17025)	BS 9942
1005		SRM 1765	2101		IARM 292A	317 L		IARM 153C
1005		SRM 1766	21Cr6Ni9Mn		CT ISO129A	318	17025	BS 2205
1005		SS 111	2205	17025	BS 2205	321		13X 32100
1005		SS 111A	2205		IARM 212D	321		BS 321C
1006		BS XCCS	2304		IARM 317A	321		BS 85D
1008		ECRM 057-2D	2507		IARM 301B	321		SRM 1171
1009		IMZ 71	253 MA	25(pre-17025)	BS 253	321		SS 465/1
100C6		IRSID 1747	253 MA		IARM 316A	321 - Ti		IMZ 152
1010		IMZ 111	254 SMO		13X 31254	321 H		BS 321A
1010		IRSID 1665	254 SMO		IARM 302B	330		IARM 7C
1011		IMZ 73	254 SMO		NILAB 501HAD	3310		BS 1972
1016		BS 1016	255, Duplex		IARM 239B	347		13X 34700
1017		IMZ 112	300M		12X 44220	347		BS 347A
1017		IRSID 1664	300M	17025	BS 300	347		BS 347B
1018		12X 10180B	300M		IARM 340A	347		IARM 8G
1018		12X 10180C	301		IARM 289A	347 H		BS 87F
1018		BS 1018	301		IRSID 1819	348		SRM 1172
1018	17025	BS 2931B	302		IARM 241D	355	17025	BS 355
1018		ECRM 087-1D	302 HQ		IARM 234C	355		IARM 335A
1020	17025	BS 1020	303		13X 30300	35MV7		IRSID 1750
1026	17025	BS 1026	303	17025	BS 303	405		SRM 1295
1026		IARM 359A	303		CT 303	409 + Cr		NCS HS20743
1030	17025	BS 1030	303		CZ SP-1A	410	25(pre-17025)	BS 0021
1030		IARM 209D	303		IARM 1D	410	17025	BS 410C
1033		IRSID 1663	303 Se		IARM 253A	410		CT 410
1035		IRSID 1645	304		IARM 2H	410		CT X23576
1035		IARM 360A	304 H		13X NSB1	410		IARM 9D
1039		IRSID 1637	304 H		CT 304	410 + Mo		ECRM 296-1D
1040		12X 10400	304 H		SS 468/1	410 + Mo		IMZ 161
1040	17025	BS 3941	304 H		VS LG61	410 Cb		CT X68887
1040		IARM 210D	304 H + Mo		13X NSA2	410 Cb		CT X68890
1040		IRSID 1657	304 L	17025	BS 304	410 H		13X 41001
1042		IRSID 1656	304 L	17025	BS 304A	410, F6NM	25(pre-17025)	BS 0022
1042		NM EN-8	304 L		BS 304B	4130	17025	BS 4130
1043		IRSID 1652	304 L		BS SS3951	4130		IPT 501
1045		BS 56E	304 L		IARM 162D	4130		SRM 1225
1045	17025	BS 56H	304 L		ECRM 287-1D	4140		12X 41400
1045		IPT 503	304 L		ECRM 292-1D	4140	25(pre-17025)	BS 1962
1050		IARM 254A	304 L		IARM 162C	4140		IARM 30i
1055		NM 3405.01	304 L		SS 463/1	4140 Bi		BS 4140A
1060		IARM 373A	305		CT 305	4140 Bi		BS 4140B
1069		ECRM 059-2D	305		CT X52353	41L40MOD	17025	BS 70B
1078		ECRM 056-2D	305		ECRM 297-1D	41L40MOD		BS 70C
1078		SRM 1224	308		DSZU C017	4150 Bi & S		BS 4150MOD
1090		SS 602/2	309		13X 30908	4150 S	17025	BS 42
1095		SRM 1227	309		BS 82D	4150 S		BS 42A
1117	25(preceded 17025)	BS 3993	309		BS 82E	416		BS 90F
1117		BS 65C	309		IARM 3E	416	17025	BS 416
1140	P	BS 52D	310		13X 31008	416		CT 416
1141		BS 66B	310		BS 83D	416		SRM 1223
1144	17025	BS 1144	310		BS 83G	416 H		13X 41600
1144	17025	BS 1144A	310	25(pre-17025)	BS 9841	416 Se		BS 151
1144		IARM 199C	310	25(pre-17025)	BS 9842	41CAD7		IRSID 1749
11L17	17025	BS 75F	310		CZ SL-3A	41L40	17025	BS 70B
11L17	17025	BS 75G	310		IARM 4E	41L50	17025	BS 72B
1215	17025	BS 66L	310		SS 464/1	42		CT ISO138A
1215		IARM 206B	3115		BS XCCT	42		CT ISO139A
12L14	17025	BS 74C	314		IMZ 165	420		BS SS4951
12L14		IARM 183C	314		IMZ 166A	420		BS SS4952
12Mn18Cr		BS 193	316	17025	BS 316C	420		ECRM 272-1D
1345		BS XCCV	316		IARM 5H	420		IARM 154B
13-8PH		13X PH13800	316		IARM 5i	420		IARM 154C
13-8PH		BS 184A				420		SS 469
13-8PH		CT X92834				420 F		BS 152
1429		ECRM 058-2D				422		13X 42200
1513		IMZ 76				422	17025	BS 422
1526	MOD	SRM 1269				422		IARM 205D
1541		IARM 349A				430		BS 91F
1541		IPT 504				430		IARM 11D
1541		IRSID 1648				430		NCS HS20742
1544		IRSID 1644				430 F		BS 153
15-5PH		BS 185A				430 F		BS 154
15-5PH		BS 9621				431	17025	BS 431
15-5PH		BS 9622				431		BS 92B
15-5PH		ECRM 273-1D				431		IARM 12C
15-5PH		IARM 22C				431		HRT FE2010-H
17-4PH		13X PH2				431		SRM 1219
17-4PH		13X PH17400				4320		BS 3961
						4330 MOD		BS 4330V

Please use the Adobe Acrobat "search" function to find the complete chemistry of these samples listed within this catalog.

ALLOY	ISO?	NUMBER	ALLOY	ISO?	NUMBER	ALLOY	ISO?	NUMBER
4340	17025	BS 4340	D-3, D-4		ECRM 288-1D	M-50		IARM 306B
4340	17025	BS 4340A	D-6	17025	BS D-6	M-7		CT M7
4340		IARM 31F	D6-AC		IARM 299A	Maraging 250		CT 250
440 C		13X 44004	Duplex		13X NSA9	Maraging 300		CT 300
440 C	17025	BS 93F	Duplex	17025	BS 2205	Maraging 300		IARM 99B
440 C		IARM 13D	Duplex		IMZ 163A	MaragingA538C 25(pre17025)		BS 161A
440 F		BS 155	Duplex		IMZ 164	Mold Steel 17025		BS PP20
440F Se		BS 156	E52100		BS 2952	Nitriding 135G		BS 68B
446		BS 94C	E52100		BS 53G	Nitriding 135G 17025		BS 68E
455		13X 45500	E52100		IARM 49D	Nitronic 40		13X NSCC
446		IARM 14C	E52100 Bi		BS 53MOD	Nitronic 40		BS 190
4615		BS 3962	Elect./ Magnetic		SRM 1159	Nitronic 40		IARM 19C
4620		BS 4620	Electrolytic		SRM 1265a	Nitronic 50		BS 180A
4620		BS 51F	F-11		BS 45A	Nitronic 50		BS 180B
4620		IARM 33C	F-11		BS 45B	Nitronic 50		IARM 17D
4620		IARM 33D	F-2		CT X27081	Nitronic 60		13X 21800
4820	17025	BS 4820A	F-2		CT X35568	Nitronic 60		BS 181A
5160		IMZ 116	F-22	17025	BS 46B	Nitronic 60	17025	BS 181B
6150		BS 4941	F-22	25(preceded 17025)	BS 1982	NMS 100		IARM 214A
6150		IARM 34C	F-22		SRM 1270	NMS 140		IARM 295A
6418		BS 6418	F-22 + Cr		HRT FE2009-N	NMS J38		IARM 294A
6418		BS 69B	F-5		BS 47A	O-1	17025	BS 35D
6526		BS 9-4-30	F-5		BS 47B	O-1		CT O1
709		CT X67975	F-51	17025	BS 2205	O-6	17025	BS 41
800	17025	BS 800	F-9	17025	BS 48B	O-6	25(preceded 17025)	BS 41A
8620		BS 8620A (XRF)	F-91	25(preceded 17025)	BS 9905	O-6		IARM 45A
8620	17025	BS 8620E	F-91	17025	BS 9905A	O-6		IARM 45B
8620		IPT 502	Ferallium 255	17025	BS 179B	P-6, HY100		BS 1972
86L20 25(preceded 17025)		BS 73B	Ferallium 255	17025	BS 179C	P-20		BS 55G
86L20		BS 73C	Greek Ascoloy		BS 183A	PP-20	17025	BS PP20
86L20		IARM 182B	Greek Ascoloy		IARM 20B	Permendur 2V		IARM 326A
8740	17025	BS 67C	Greek Ascoloy		IARM 20C	RA330		BS 86F
8740		IARM 252C	H-10		BS 49	S-1		BS 33D
904L		13X NSA12	H-11		ECRM 276-2D	S-1		BS 33E
904L		ECRM 295-1D	H-11		IARM 255A	S-1		IARM 46B
9310		BS 58C	H-11		IMZ 173	S-5		BS 38C
9310		BS 58E	H-13	17025	BS H-13	S-5		IARM 47B
9325	17025	BS 9325A	H-13		CT H13	S-7		IARM 259A
9-4-30		IARM 341A	H-13		IMZ 174	S-7		SRM 1772
A-10		BS A-10	H-19	17025	BS H-19	SA213-T22		IMZ 159
A-11		BS 10V	HC 250+v		SRM C1290	SA213-T22		IMZ 160
A-11	17025	BS A-11	High Perm		CT IS0124A	SA213-T22		IMZ 169
A-106 Gr B		SRM 1228	High Perm		CT IS0136A	SAE G2500		BS 20E
A-193 B16		BS 4942	High Perm 49		CT IS0141A	STA 361		IARM 268B
A-193 B16	17025	BS 4942A	HSLA 100		SRM 1271	T-1		14X HS1
A-2		BS 36D	HY 130		SRM 1226	T-1	17025	BS 30D
A-2		CT A2	HY 80		SRM 1286	T-1		IARM 48C
A-2		IARM 39B	Hy-Tuff		IARM 342A	T-15		BS TS15
A-2		IARM 39C	Invar		14X 93603	VM12		IMZ 196
A-20		BS 187C	Invar-36 + Se		BS 186A	W-5		14X 72305
A-242		IPT 500	Invar-36 + Se		IARM 24B	Z30C13		IRSID 1825
A-242 Mod		SRM C1285	Invar 42		14X 94100	Zeron 100, Duplex		13X NSA8
A-286		BS 188A	ISO 898-1		SS 457/2	Zeron 100, Duplex		IARM 319A
A-286	17025	BS 188B	KOVAR	17025	BS 160A			
A-286		SRM 1230	KOVAR		IARM 98B			
A-36	17025	BS 2931B	L-2, 6150		BS 43A			
A-36		IARM 213C	L-6	17025	BS 39B			
A-36		SRM 1767	L-6		IARM 43B			
A-485-1		BS A485-1	LDX2101		13X 32101			
A-6		BS 40B	LF-2		BS 2931B			
A-6		IARM 40B	LF-2	17025	BS LF2B			
A-6		IARM 40C	LF-2		ECRM 096-2D			
Aermet 100		CT ISO045A	LF-2		SS 601/2			
Aermet 100		IARM 242A	LF-3		BS LF3			
AL6XN	17025	BS 189A	M-1		CT M1			
C-.5Mo		BS 3952	M-1		IARM 304A			
C-.5Mo		IARM 229B	M-10		CT M10			
C-250		IARM 308A	M-10		IARM 324A			
C-350		IARM 309A	M-152		13X 64152			
CA6NM		HRT FE2009-H	M-152		IARM 291A			
CA6NM		IARM 327A	M-2		CT M2			
CD3MN		13X NSA1	M-2		IARM 44C			
CD3MN		13X NSA5	M-2		SRM 1157			
CD3MN		ECRM 298-1D	M-35		IARM 320A			
CD6MN		VS LG58	M-4		IARM 251A			
CF-3		IRSID 1820	M-42		SS 487/1			
CLA1		IARM 164A	M-47	17025	BS M-47			
CLA11		IARM 180A	M-50	17025	BS M-50			
CLA5		IARM 168A						
CLA9		IARM 172A						
CPM15V	17025	BS PM15						
Custom 450	25(pre-17025)	BS 9811						
Custom 450	25(pre-17025)	BS 9812						
Custom 450		CT 450						
Custom 450		IARM 15B						
Custom 455		BS SS1961						
Custom 455		BS SS1962						
Custom 455		CT 455						
Custom 455		IARM 16C						
Custom 465		CT IS0123A						
Custom 630		CT 630						
D-2		BS 37G						
D-2		CT D2						

The best efforts have been made in the construction of this chart. Some samples do not perfectly fit the alloy specifications, but are considered acceptable for the purposes of calibration and type standardization.

Please use the Adobe Acrobat "search" function to find the complete chemistry of these samples listed within this catalog.

## CARBON STEEL SPECIFICATIONS

Number	C	Mn	P	S
1005	<0.06	<0.35	<0.03	<0.05
1006	<0.08	0.25-0.40	<0.03	<0.05
1008	<0.10	0.30-0.50	<0.03	<0.05
1009	<0.15	<0.60	<0.03	<0.05
1010	0.08-0.13	0.30-0.60	<0.03	<0.05
1011	0.09-0.14	0.60-0.90	<0.03	<0.05
1012	0.10-0.15	0.30-0.60	<0.03	<0.05
1013	0.11-0.16	0.50-0.80	<0.03	<0.05
1015	0.13-0.18	0.30-0.60	<0.03	<0.05
1016	0.13-0.18	0.60-0.90	<0.03	<0.05
1017	0.15-0.20	0.30-0.60	<0.03	<0.05
1018	0.15-0.20	0.60-0.90	<0.03	<0.05
1019	0.15-0.20	0.70-1.00	<0.03	<0.05
1020	0.18-0.23	0.30-0.60	<0.03	<0.05
1021	0.18-0.23	0.60-0.90	<0.03	<0.05
1022	0.18-0.23	0.70-1.00	<0.03	<0.05
1023	0.20-0.25	0.30-0.60	<0.03	<0.05
1025	0.22-0.28	0.30-0.60	<0.03	<0.05
1026	0.22-0.28	0.60-0.90	<0.03	<0.05
1029	0.25-0.31	0.60-0.90	<0.03	<0.05
1030	0.28-0.34	0.60-0.90	<0.03	<0.05
1033	0.29-0.36	0.70-1.00	<0.03	<0.05
1034	0.32-0.38	0.50-0.80	<0.03	<0.05
1035	0.32-0.38	0.60-0.90	<0.03	<0.05
1037	0.32-0.38	0.70-1.00	<0.03	<0.05
1038	0.35-0.42	0.60-0.90	<0.03	<0.05
1039	0.37-0.44	0.70-1.00	<0.03	<0.05
1040	0.37-0.44	0.60-0.90	<0.03	<0.05
1042	0.40-0.47	0.60-0.90	<0.03	<0.05
1043	0.40-0.47	0.70-1.00	<0.03	<0.05
1044	0.43-0.50	0.30-0.60	<0.03	<0.05
1045	0.43-0.50	0.60-0.90	<0.03	<0.05
1046	0.43-0.50	0.70-1.00	<0.03	<0.05
1049	0.46-0.53	0.60-0.90	<0.03	<0.05
1050	0.48-0.55	0.60-0.90	<0.03	<0.05
1053	0.48-0.55	0.70-1.00	<0.03	<0.05
1055	0.50-0.60	0.60-0.90	<0.03	<0.05
1059	0.55-0.65	0.50-0.80	<0.03	<0.05
1060	0.55-0.65	0.60-0.90	<0.03	<0.05
1064	0.60-0.70	0.50-0.80	<0.03	<0.05
1065	0.60-0.70	0.60-0.90	<0.03	<0.05
1069	0.65-0.75	0.40-0.70	<0.03	<0.05
1070	0.65-0.75	0.60-0.90	<0.03	<0.05
1074	0.70-0.80	0.50-0.80	<0.03	<0.05
1078	0.72-0.85	0.30-0.60	<0.03	<0.05
1080	0.75-0.88	0.60-0.90	<0.03	<0.05
1084	0.83-0.93	0.60-0.90	<0.03	<0.05
1085	0.80-0.94	0.70-1.00	<0.03	<0.05
1086	0.80-0.93	0.30-0.50	<0.03	<0.05
1090	0.85-0.98	0.60-0.90	<0.03	<0.05
1095	0.90-1.03	0.30-0.50	<0.03	<0.05
Number	C	Mn	P	S

## CARBON STEEL SPECIFICATIONS

Number	C	Mn	P	S	Si
1513	0.10-0.16	1.10-1.40	<0.03	<0.05	.
1522	0.18-0.24	1.10-1.40	<0.04	<0.05	.
1524	0.19-0.25	1.35-1.65	<0.04	<0.05	.
1526	0.22-0.29	1.10-1.40	<0.04	<0.05	.
1527	0.22-0.29	1.20-1.50	<0.04	<0.05	.
1533	0.30-0.37	1.10-1.40	<0.04	<0.05	.
1534	0.30-0.37	1.20-1.50	<0.04	<0.05	.
1541	0.36-0.44	1.35-1.65	<0.04	<0.05	.
1544	0.40-0.47	0.80-1.10	<0.04	<0.05	.
1545	0.43-0.50	0.80-1.10	<0.04	<0.05	.
1546	0.44-0.52	1.00-1.30	<0.04	<0.05	.
1548	0.44-0.52	1.10-1.40	<0.04	<0.05	.
1552	0.47-0.55	1.20-1.50	<0.04	<0.05	.
1553	0.48-0.55	0.80-1.10	<0.04	<0.05	.
1566	0.60-0.70	0.85-1.15	<0.04	<0.05	.
1570	0.65-0.75	0.80-1.10	<0.04	<0.05	.
1580	0.75-0.88	0.80-1.10	<0.04	<0.05	.
1590	0.85-0.98	0.80-1.10	<0.04	<0.05	.
LF2	<0.30	0.60-1.35	<0.035	<0.04	0.15-0.30

Number	C	Mn	P	S	Si
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## RESULFURIZED STEEL SPECIFICATIONS

Number	C	Mn	P	S
1108	0.08-0.13	0.50-0.80	<0.04	0.08-0.13
1109	0.08-0.13	0.60-0.90	<0.04	0.08-0.13
1110	0.08-0.13	0.30-0.60	<0.04	0.08-0.13
1116	0.14-0.20	1.10-1.40	<0.04	0.16-0.23
1117	0.14-0.20	1.00-1.30	<0.04	0.08-0.13
1118	0.14-0.20	1.30-1.60	<0.04	0.08-0.13
1119	0.14-0.20	1.00-1.30	<0.04	0.24-0.33
1123	0.20-0.27	1.20-1.50	<0.04	0.06-0.09
1132	0.27-0.34	1.35-1.65	<0.04	0.09-0.13
1137	0.32-0.39	1.35-1.65	<0.03	0.08-0.13
1139	0.35-0.43	1.35-1.65	<0.04	0.13-0.20
1140	0.37-0.44	0.70-1.00	<0.03	0.08-0.13
1141	0.37-0.45	1.35-1.65	<0.03	0.08-0.13
1144	0.40-0.48	1.35-1.65	<0.03	0.24-0.33
1145	0.41-0.49	0.70-1.00	<0.04	0.08-0.13
1146	0.42-0.49	0.70-1.00	<0.04	0.08-0.13
1151	0.48-0.55	0.70-1.00	<0.04	0.08-0.13
1152	0.48-0.55	0.70-1.00	<0.04	0.06-0.09
1211	<0.13	0.60-0.90	0.07-0.12	0.10-0.15
1212	<0.13	0.70-1.00	0.07-0.12	0.16-0.23
1213	<0.13	0.70-1.00	0.07-0.12	0.24-0.33
1215	<0.09	0.75-1.05	0.04-0.09	0.26-0.35

Number	C	Mn	P	S
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These are specifications,  
not samples for sale.

## LOW ALLOY STEEL SPECIFICATIONS

Number	C	Mn	P	S	Si	Ni	Cr	Mo	Pb	Other
1330	0.28-0.33	1.60-1.90	<0.035	<0.04	0.15-0.35	.	.	.	.	.
1335	0.33-0.38	1.60-1.90	<0.035	<0.04	0.15-0.35	.	.	.	.	.
1340	0.38-0.43	1.60-1.90	<0.035	<0.04	0.15-0.35	.	.	.	.	.
1345	0.43-0.48	1.60-1.90	<0.035	<0.04	0.15-0.35	.	.	.	.	.
3140	0.38-0.43	0.70-0.90	<0.04	<0.04	0.15-0.35	1.10-1.40	0.55-0.75	.	.	.
4023	0.20-0.25	0.70-0.90	<0.035	<0.04	0.15-0.35	.	.	0.20-0.30	.	.
4027	0.25-0.30	0.70-0.90	<0.035	<0.04	0.15-0.35	.	.	0.20-0.30	.	.
4028	0.25-0.30	0.70-0.90	<0.035	0.035-0.050	0.15-0.35	.	.	0.20-0.30	.	.
4037	0.35-0.40	0.70-0.90	<0.035	<0.04	0.15-0.35	.	.	0.20-0.30	.	.
4047	0.45-0.50	0.70-0.90	<0.035	<0.04	0.15-0.35	.	.	0.20-0.30	.	.
4118	0.18-0.23	0.70-0.90	<0.035	<0.04	0.15-0.35	.	0.40-0.60	0.08-0.15	.	.
4120	0.18-0.23	0.80-1.20	<0.035	<0.04	0.15-0.35	.	0.40-0.60	0.15-0.25	.	.
4121	0.18-0.23	0.75-1.00	<0.035	<0.04	0.15-0.35	.	0.45-0.65	0.15-0.25	.	.
4130	0.28-0.33	0.40-0.60	<0.035	<0.04	0.15-0.35	.	0.80-1.10	0.15-0.25	.	.
4135	0.33-0.38	0.70-0.90	<0.035	<0.04	0.15-0.35	.	0.80-1.10	0.15-0.25	.	.
4137	0.35-0.40	0.70-0.90	<0.035	<0.04	0.15-0.35	.	0.80-1.10	0.15-0.25	.	.
4140	0.38-0.43	0.75-1.00	<0.035	<0.04	0.15-0.35	.	0.80-1.10	0.15-0.25	.	.
41L40	0.38-0.43	0.75-1.00	<0.035	0.02-0.04	0.15-0.35	.	0.80-1.10	0.15-0.25	0.15-0.35	.
4142	0.40-0.45	0.45-0.65	<0.035	<0.04	0.15-0.35	.	0.80-1.10	0.15-0.25	.	.
4145	0.43-0.48	0.75-1.00	<0.035	<0.04	0.15-0.35	.	0.80-1.10	0.15-0.25	.	.
4147	0.45-0.50	0.75-1.00	<0.035	<0.04	0.15-0.35	.	0.80-1.10	0.15-0.25	.	.
4150	0.48-0.53	0.75-1.00	<0.035	<0.04	0.15-0.35	.	0.80-1.10	0.15-0.25	.	.
41L50	0.48-0.53	0.75-1.00	<0.035	0.02-0.04	0.15-0.35	.	0.80-1.10	0.15-0.25	0.15-0.35	.
4320	0.17-0.22	0.45-0.65	<0.035	<0.04	0.15-0.35	1.65-2.00	0.40-0.60	0.20-0.30	.	.
4340	0.38-0.43	0.60-0.80	<0.035	<0.04	0.15-0.35	1.65-2.00	0.70-0.90	0.20-0.30	.	.
4615	0.13-0.18	0.45-0.65	<0.035	<0.04	0.15-0.35	1.65-2.00	.	0.20-0.30	.	.
4617	0.15-0.20	0.45-0.65	<0.035	<0.04	0.15-0.35	1.65-2.00	.	0.20-0.30	.	.
4620	0.17-0.22	0.45-0.65	<0.035	<0.04	0.15-0.35	1.65-2.00	.	0.20-0.30	.	.
4715	0.13-0.18	0.70-0.90	<0.035	<0.04	0.15-0.35	0.70-1.00	0.45-0.65	0.45-0.65	.	.
4720	0.17-0.22	0.50-0.70	<0.035	<0.04	0.15-0.35	0.90-1.20	0.35-0.55	0.15-0.25	.	.
4815	0.13-0.18	0.40-0.60	<0.035	<0.04	0.15-0.35	3.25-3.75	.	0.20-0.30	.	.
4820	0.18-0.23	0.50-0.70	<0.035	<0.04	0.15-0.35	3.25-3.75	.	0.20-0.30	.	.
50B46	0.44-0.49	0.75-1.00	<0.035	<0.04	0.15-0.35	.	0.20-0.35	.	.	B: 0.0005-0.003
5120	0.17-0.22	0.70-0.90	<0.035	<0.04	0.15-0.35	.	0.70-0.90	.	.	.
51L20	0.17-0.22	0.70-0.90	<0.035	<0.04	0.15-0.35	.	0.70-0.90	.	0.15-0.35	.
5130	0.28-0.33	0.70-0.90	<0.035	<0.04	0.15-0.35	.	0.80-1.10	.	.	.
5132	0.30-0.35	0.60-0.80	<0.035	<0.04	0.15-0.35	.	0.75-1.00	.	.	.
5140	0.38-0.43	0.70-0.90	<0.035	<0.04	0.15-0.35	.	0.70-0.90	.	.	.
5150	0.48-0.53	0.70-0.90	<0.035	<0.04	0.15-0.35	.	0.70-0.90	.	.	.
5160	0.56-0.64	0.75-1.00	<0.035	<0.04	0.15-0.35	.	0.70-0.90	.	.	.
51B60	0.56-0.64	0.75-1.00	<0.035	<0.04	0.15-0.35	.	0.70-0.90	.	.	B: >0.0005
6150	0.48-0.53	0.70-0.90	<0.035	<0.04	0.15-0.35	.	0.80-1.10	.	.	V: >0.15
8615	0.13-0.18	0.70-0.90	<0.035	<0.04	0.15-0.35	0.40-0.70	0.40-0.60	0.15-0.25	.	.
8617	0.15-0.20	0.70-0.90	<0.035	<0.04	0.15-0.35	0.40-0.70	0.40-0.60	0.15-0.25	.	.
8620	0.18-0.23	0.70-0.90	<0.035	<0.04	0.15-0.35	0.40-0.70	0.40-0.60	0.15-0.25	.	.
86L20	0.18-0.21	0.70-0.90	<0.035	0.02-0.04	0.15-0.35	0.40-0.70	0.40-0.60	0.15-0.25	0.15-0.35	.
8622	0.20-0.25	0.70-0.90	<0.035	<0.04	0.15-0.35	0.40-0.70	0.40-0.60	0.15-0.25	.	.
8630	0.28-0.33	0.70-0.90	<0.035	<0.04	0.15-0.35	0.40-0.70	0.40-0.60	0.15-0.25	.	.
8637	0.35-0.40	0.75-1.00	<0.035	<0.04	0.15-0.35	0.40-0.70	0.40-0.60	0.15-0.25	.	.
8640	0.38-0.43	0.75-1.00	<0.035	<0.04	0.15-0.35	0.40-0.70	0.40-0.60	0.15-0.25	.	.
8645	0.43-0.48	0.75-1.00	<0.035	<0.04	0.15-0.35	0.40-0.70	0.40-0.60	0.15-0.25	.	.
8720	0.18-0.23	0.70-0.90	<0.035	<0.04	0.15-0.35	0.40-0.70	0.40-0.60	0.20-0.30	.	.
8740	0.38-0.43	0.75-1.00	<0.035	<0.04	0.15-0.35	0.40-0.70	0.40-0.60	0.20-0.30	.	.
8822	0.20-0.25	0.75-1.00	<0.035	<0.04	0.15-0.35	0.40-0.70	0.40-0.60	0.30-0.40	.	.
9259	0.56-0.64	0.75-1.00	<0.035	<0.04	0.70-1.10	.	0.45-0.65	.	.	.
9260	0.56-0.64	0.75-1.00	<0.035	<0.04	1.80-2.20	.	.	.	.	.
E4340	0.38-0.43	0.65-0.85	<0.025	<0.025	0.15-0.35	1.65-2.00	0.70-0.90	0.20-0.30	.	.
E51100	0.98-1.10	0.25-0.45	<0.025	<0.025	0.15-0.35	.	0.90-1.15	.	.	.
E52100	0.98-1.10	0.25-0.45	<0.025	<0.025	0.15-0.35	.	1.30-1.60	.	.	.
E9310	0.08-0.13	0.45-0.65	<0.025	<0.025	0.15-0.35	3.00-3.50	1.00-1.40	0.08-0.15	.	.
F-11	0.10-0.20	0.30-0.80	<0.04	<0.04	0.50-1.00	.	1.00-1.50	0.44-0.65	.	.
F-22	<0.15	0.30-0.60	<0.03	<0.03	<0.50	.	2.00-2.50	0.90-1.10	.	.
F-5	<0.15	0.30-0.60	<0.03	<0.03	<0.50	.	4.00-6.00	0.45-0.65	.	.
F-9	<0.15	0.30-0.60	<0.03	<0.03	0.50-1.0	.	8.00-10.00	0.90-1.10	.	.
F-91	0.08-0.12	0.30-0.60	<0.02	<0.01	0.20-0.50	<0.40	8.00-9.50	0.85-1.05	.	Al: <0.04      N: 0.03-0.07
F-91	continued									Nb: 0.06-0.10      V: 0.18-0.25
LF2	<0.30	0.60-1.35	<0.035	<0.04	0.15-0.30	.	.	.	.	.
LF3	<0.20	<0.90	<0.035	<0.04	0.20-0.35	3.25-3.75	.	.	.	.
Number	C	Mn	P	S	Si	Ni	Cr	Mo	Pb	Other

These are specifications,  
not samples for sale.

## TOOL STEEL SPECIFICATIONS

\* notes optional chemistry

Number	C	Mn	P	S	Si	Ni	Cr	Co	Mo	V	W	Other
A-2	0.95-1.05	<1.00	<0.03	<0.03	<0.50	.	4.75-5.50	.	0.90-1.40	0.15-0.50	.	.
A-4	0.95-1.05	1.80-2.20	<0.03	<0.03	<0.50	.	0.90-2.20	.	0.90-1.40	.	.	.
A-6	0.65-0.75	1.80-2.50	<0.03	<0.03	<0.50	.	0.90-1.20	.	0.90-1.40	.	.	.
A-7	2.00-2.85	<0.80	<0.03	<0.03	<0.50	.	5.00-5.75	.	0.90-1.40	3.90-5.15	0.50-1.50	.
A-8	0.50-0.60	<0.50	<0.03	<0.03	0.75-1.10	.	4.75-5.50	.	1.15-1.65	.	1.00-1.50	.
A-9	0.45-0.55	<0.50	<0.03	<0.03	0.95-1.15	1.25-1.75	4.75-5.50	.	1.30-1.80	0.80-1.40	.	.
A-10	1.25-1.50	1.60-2.10	<0.03	<0.03	1.00-1.50	1.55-2.05	.	.	1.25-1.75	.	.	.
A-11	2.45	0.50	.	.	0.90	.	5.25	.	1.30	9.75	.	.
D-2	1.40-1.60	<0.60	<0.03	<0.03	<0.60	.	11.00-13.00	<1.00	0.70-1.20	<1.10	.	.
D-3	2.00-2.35	<0.60	<0.03	<0.03	<0.60	.	11.00-13.50	.	.	<1.00	<1.00	.
D-4	2.05-2.40	<0.60	<0.03	<0.03	<0.60	.	11.00-13.00	.	0.70-1.20	<1.00	.	.
D-5	1.40-1.60	<0.60	<0.03	<0.03	<0.60	.	11.00-13.00	2.50-3.50	0.70-1.20	<1.00	.	.
D-7	2.15-2.50	<0.60	<0.03	<0.03	<0.60	.	11.50-13.50	.	0.70-1.20	3.80-4.40	.	.
H-10	0.35-0.45	0.25-0.70	<0.03	<0.03	0.80-1.20	.	3.00-3.75	.	2.00-3.00	0.25-0.75	.	.
H-11	0.33-0.43	0.20-0.50	<0.03	<0.03	0.80-1.20	.	4.75-5.50	.	1.10-1.60	0.30-0.60	.	.
H-12	0.30-0.40	0.20-0.50	<0.03	<0.03	0.80-1.20	.	4.75-5.50	.	1.25-1.75	<0.50	1.00-1.70	.
H-13	0.32-0.45	0.20-0.50	<0.03	<0.03	0.80-1.20	.	4.75-5.50	.	1.10-1.75	0.80-1.20	.	.
H-14	0.35-0.45	0.20-0.50	<0.03	<0.03	0.80-1.20	.	4.75-5.50	.	.	.	4.00-5.25	.
H-19	0.32-0.45	0.20-0.50	<0.03	<0.03	0.80-1.20	.	4.00-4.75	4.00-4.50	0.30-0.55	1.75-2.20	3.75-4.50	4.50
H-21	0.26-0.36	0.15-0.40	<0.03	<0.03	0.15-0.50	.	3.00-3.75	.	.	0.30-0.60	8.50-10.00	.
H-22	0.30-0.40	0.15-0.40	<0.03	<0.03	0.15-0.40	.	1.75-3.75	.	.	0.25-0.50	10.00-11.75	.
H-23	0.25-0.35	0.15-0.40	<0.03	<0.03	0.15-0.60	.	11.00-12.75	.	.	0.75-1.25	11.00-12.75	.
H-24	0.42-0.53	0.15-0.40	<0.03	<0.03	0.15-0.40	.	2.50-3.50	.	.	0.40-0.60	14.00-16.00	.
H-26	0.45-0.55	0.15-0.40	<0.03	<0.03	0.15-0.40	.	3.75-4.50	.	.	0.75-1.25	17.25-19.00	.
H-42	0.55-0.70	0.15-0.40	<0.03	<0.03	0.20-0.45	.	3.75-4.50	.	4.50-5.50	1.75-2.20	5.50-6.75	.
L-2	0.45-1.00	0.10-0.90	<0.03	<0.03	<0.50	.	0.70-1.20	.	<0.25	0.10-0.30	.	.
L-6	0.65-0.75	0.25-0.80	<0.03	<0.03	<0.50	1.25-2.00	0.60-1.20	.	<0.50	.	.	.
M-1	0.78-0.88	0.15-0.40	<0.03	<0.03	0.20-0.50	.	3.50-4.00	.	8.20-9.20	1.00-1.35	1.40-2.10	.
M-2	0.78-1.05	0.15-0.40	<0.03	<0.03	0.20-0.45	.	3.75-4.50	.	4.50-5.50	1.75-2.20	5.50-6.75	.
M-3.1	1.00-1.10	0.15-0.40	<0.03	<0.03	0.20-0.45	.	3.75-4.50	.	4.75-6.50	2.25-2.75	5.00-6.75	.
M-3.2	1.15-1.25	0.15-0.40	<0.03	<0.03	0.20-0.45	.	3.75-4.50	.	4.75-6.50	2.75-3.25	5.00-6.75	.
M-4	1.25-1.40	0.15-0.40	<0.03	<0.03	0.20-0.45	.	3.75-4.75	.	4.25-5.50	3.75-4.50	5.25-6.50	.
M-6	0.75-0.85	0.15-0.40	<0.03	<0.03	0.20-0.45	.	3.75-4.50	11.00-13.00	4.50-5.50	1.30-1.70	3.75-4.75	.
M-7	0.97-1.05	0.15-0.40	<0.03	<0.03	0.20-0.55	.	3.50-4.00	.	8.20-9.20	1.75-2.25	1.40-2.10	.
M-10	0.84-1.05	0.10-0.40	<0.03	<0.03	0.20-0.45	.	3.75-4.50	.	7.75-8.50	1.80-2.20	.	.
M-30	0.75-0.85	0.15-0.40	<0.03	<0.03	0.20-0.45	.	3.50-4.25	4.50-5.50	7.75-9.00	1.00-1.40	1.30-2.30	.
M-33	0.85-0.92	0.15-0.40	<0.03	<0.03	0.25-0.55	.	3.50-4.00	7.75-8.75	9.00-10.00	1.00-1.35	1.30-2.10	.
M-34	0.85-0.92	0.15-0.40	<0.03	<0.03	0.20-0.45	.	3.50-4.00	7.75-8.75	7.75-9.20	1.90-2.30	1.40-2.10	.
M-36	0.80-0.90	0.15-0.40	<0.03	<0.03	0.20-0.45	.	3.75-4.50	7.75-8.75	4.50-5.50	1.75-2.25	5.50-6.50	.
M-41	1.05-1.15	0.20-0.60	<0.03	<0.03	0.15-0.50	.	3.75-4.50	4.75-5.75	3.25-4.25	1.75-2.25	6.25-7.00	.
M-42	1.05-1.15	0.15-0.40	<0.03	<0.03	0.15-0.65	.	3.50-4.25	7.75-8.75	9.00-10.00	0.95-1.35	1.15-1.85	.
M-46	1.22-1.30	0.20-0.40	<0.03	<0.03	0.40-0.65	.	3.70-4.20	7.80-8.80	8.00-8.50	3.00-3.30	1.90-2.20	.
M-48	1.50	.	.	.	.	.	3.75	9.00	5.25	3.10	10.0	.
M-52	0.90	.	.	.	.	.	4.00	.	4.00	2.00	1.25	.
M-61	1.60	.	.	.	.	.	4.00	.	6.50	5.00	12.0	.
M-62	1.30	.	.	.	.	.	3.75	.	10.5	2.00	6.25	.
O-1	0.85-1.00	1.00-1.40	<0.03	<0.03	<0.50	.	0.40-0.60	.	.	<0.30	0.40-0.60	.
O-2	0.85-0.95	1.40-1.80	<0.03	<0.03	<0.50	.	<0.35	.	<0.30	<0.30	.	.
O-6	1.25-1.55	0.30-1.10	<0.03	<0.03	0.55-1.50	.	<0.30	.	0.20-0.30	.	.	.
O-7	1.10-1.30	<1.00	<0.03	<0.03	<0.60	.	0.35-0.85	.	<0.30	<0.40	1.00-2.00	.
P-20	0.28-0.40	0.60-1.00	<0.03	<0.03	0.20-0.80	.	1.40-2.00	.	0.30-0.55	.	.	.
P-21	0.18-0.22	0.20-0.40	<0.03	<0.03	0.20-0.40	4.00-4.25	0.20-0.30	.	.	0.15-0.25	.	Al: 1.05-1.25
P-6	0.05-0.15	0.35-0.70	<0.03	<0.03	0.10-0.40	3.25-3.75	1.25-1.75	.	.	.	.	.
S-1	0.40-0.55	0.10-0.40	<0.03	<0.03	0.15-1.20	.	1.00-1.80	.	<0.50	0.15-0.30	1.50-3.00	.
S-2	0.40-0.55	0.30-0.50	<0.03	<0.03	0.90-1.20	.	0.90-1.20	.	0.30-0.60	<0.50	.	.
S-4	0.50-0.65	0.60-0.95	<0.03	<0.03	1.75-2.25	.	<0.35	.	.	<0.35	.	.
S-5	0.50-0.65	0.60-1.00	<0.03	<0.03	1.75-2.25	.	<0.35	.	0.20-1.35	<0.35	.	.
S-6	0.40-0.50	1.20-1.50	<0.03	<0.03	2.00-2.50	.	1.20-1.50	.	0.30-0.50	0.20-0.40	.	.
S-7	0.45-0.55	0.20-0.80	<0.03	<0.03	0.20-1.00	.	3.00-3.50	.	1.30-1.80	0.20-0.30*	.	.
T-1	0.65-0.80	0.10-0.40	<0.03	<0.03	0.20-0.40	.	3.75-4.50	.	.	0.90-1.30	17.25-18.25	.
T-15	1.50-1.60	0.15-0.40	<0.03	<0.03	0.15-0.40	.	3.75-5.00	4.75-5.25	<1.00	4.50-5.25	11.75-13.00	.
T-4	0.70-0.80	0.10-0.40	<0.03	<0.03	0.20-0.40	.	3.75-4.50	4.25-5.75	0.40-1.00	0.80-1.20	17.50-19.00	.
T-5	0.75-0.85	0.20-0.40	<0.03	<0.03	0.20-0.40	.	3.75-5.00	7.00-9.50	0.50-1.25	1.80-2.40	17.50-19.00	.
T-6	0.75-0.85	0.20-0.40	<0.03	<0.03	0.20-0.40	.	4.00-4.75	11.00-13.00	0.40-1.00	1.50-2.10	18.50-21.00	.
T-8	0.75-0.85	0.20-0.40	<0.03	<0.03	0.20-0.40	.	3.75-4.50	4.25-5.75	0.40-1.00	1.80-2.40	13.25-14.75	.
W-1	0.70-1.50	0.10-0.40	<0.025	<0.025	0.10-0.40	<0.20	<0.15	.	<0.10	<0.10	<0.15	Cu: <0.20
W-2	0.85-1.50	0.10-0.40	<0.03	<0.03	0.10-0.40	<0.20	<0.15	.	<0.10	0.15-0.35	<0.15	Cu: <0.20
W-5	1.05-1.15	0.10-0.40	<0.03	<0.03	0.10-0.40	<0.20	0.40-0.60	.	<0.10	<0.10	<0.15	Cu: <0.20

Number	C	Mn	P	S	Si	Ni	Cr	Co	Mo	V	W	Other
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These are specifications,  
not samples for sale.

## STAINLESS AND HIGH ALLOY STEEL SPECIFICATIONS

\* notes optional chemistry

Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	N	Nb	Other
13-8PH	<0.05	<0.20	<0.01	<0.008	<0.10	.	7.50-8.50	12.25-13.25	2.00-2.50	<0.01	.	Al: 0.90-1.35
15-5PH	<0.07	<1.00	<0.04	<0.03	<1.00	2.50-4.50	3.50-5.50	14.00-15.50	.	.	0.15-0.45	
17-4PH	<0.07	<1.00	<0.04	<0.03	<1.00	3.00-5.00	3.00-5.00	15.00-17.50	.	.	0.15-0.45	
201	<0.15	5.5-7.5	<0.060	<0.03	<1.00	.	3.50-5.50	16.00-18.00	.	<0.25	.	
202	<0.15	7.5-10.0	<0.060	<0.03	<1.00	.	4.00-6.00	17.00-19.00	.	<0.25	.	
301	<0.15	<2.00	<0.045	<0.03	<1.00	.	6.00-8.00	16.00-18.00	.	.	.	
302	<0.15	<2.00	<0.045	<0.03	<1.00	.	8.00-10.00	17.00-19.00	.	.	.	
302B	<0.15	<2.00	<0.045	<0.03	2.00-3.00	.	8.00-10.00	17.00-19.00	.	.	.	
303	<0.15	<2.00	<0.20	>0.15	<1.00	.	8.00-10.00	17.00-19.00	<0.60*	.	.	Zr: <0.60*
304	<0.08	<2.00	<0.045	<0.03	<1.00	.	8.00-10.50	18.00-20.00	.	.	.	
304L	<0.03	<2.00	<0.045	<0.03	<1.00	.	8.00-12.00	18.00-20.00	.	.	.	
305	<0.12	<2.00	<0.045	<0.03	<1.00	.	10.00-13.00	17.00-19.00	.	.	.	
308	<0.08	<2.00	<0.045	<0.03	<1.00	.	10.00-12.00	19.00-21.00	.	.	.	
309	<0.20	<2.00	<0.045	<0.03	<1.00	.	12.00-15.00	22.00-24.00	.	.	.	
310	<0.25	<2.00	<0.045	<0.03	<1.50	.	19.00-22.00	24.00-26.00	.	.	.	
314	<0.25	<2.00	<0.045	<0.03	1.50-3.00	.	19.00-22.00	23.00-26.00	.	.	.	
316	<0.08	<2.00	<0.045	<0.03	<1.00	.	10.00-14.00	16.00-18.00	2.00-3.00	.	.	
316	<0.08	<2.00	<0.045	<0.03	<1.00	.	10.00-14.00	16.00-18.00	2.00-3.00	.	.	
316L	<0.03	<2.00	<0.045	<0.03	<1.00	.	10.00-14.00	16.00-18.00	2.00-3.00	.	.	
321	<0.08	<2.00	<0.045	<0.03	<1.00	.	9.00-12.00	17.00-19.00	.	.	.	Ti: >5xC
347	<0.08	<2.00	<0.045	<0.03	<1.00	.	9.00-13.00	17.00-19.00	.	.	>10xC	
348	<0.08	<2.00	<0.045	<0.03	<1.00	.	9.00-13.00	17.00-19.00	.	.	>10xC	Ta: <0.10
384	<0.08	<2.00	<0.045	<0.03	<1.00	.	17.00-19.00	15.00-17.00	.	.	.	
385	<0.08	<2.00	<0.045	<0.03	<1.00	.	14.00-16.00	11.50-13.50	.	.	.	
403	<0.15	<1.00	<0.04	<0.03	<0.50	.	.	11.50-13.00	.	.	.	
405	<0.08	<1.00	<0.04	<0.03	<1.00	.	.	11.50-14.50	.	.	.	Al: 0.10-0.30
409	<0.08	<1.00	<0.04	<0.01	<1.00	.	<0.50	10.50-11.75	.	.	.	Ti: 6\mtC-0.75
410	<0.15	<1.00	<0.04	<0.03	<1.00	.	.	11.50-13.50	.	.	.	
414	<0.15	<1.00	<0.04	<0.03	<1.00	.	1.25-2.50	11.50-13.50	.	.	.	
416	<0.15	<1.25	<0.06	>0.15	<1.00	.	.	12.00-14.00	<0.60*	.	.	Zr: <0.60*
420	>0.15	<1.00	<0.04	<0.03	<1.00	.	.	12.00-14.00	.	.	.	
422	0.20-0.25	<1.00	<0.04	<0.03	<0.75	<0.50	0.50-1.00	11.00-12.50	0.75-1.25	.	.	V: 0.15-0.30
422	continued											W: 0.75-1.25
430	<0.12	<1.00	<0.04	<0.03	<1.00	.	.	16.00-18.00	.	.	.	
430F	<0.12	<1.25	<0.06	>0.15	<1.00	.	.	16.00-18.00	<0.60*	.	.	Zr: <0.60*
431	<0.20	<1.00	<0.04	<0.03	<1.00	.	1.25-2.50	15.00-17.00	.	.	.	
440A	0.60-0.75	<1.00	<0.04	<0.03	<1.00	.	.	16.00-18.00	<0.75	.	.	
440B	0.75-0.95	<1.00	<0.04	<0.03	<1.00	.	.	16.00-18.00	<0.75	.	.	
440C	0.95-1.20	<1.00	<0.04	<0.03	<1.00	.	.	16.00-18.00	<0.75	.	.	
450	<0.05	<1.00	<0.03	<0.03	<1.00	1.25-1.75	5.00-7.00	14.00-16.00	0.50-1.00	.	8\mtC	
455	<0.05	<0.50	<0.04	<0.03	<0.50	1.50-2.50	7.50-9.50	11.00-12.50	<0.50	.	0.10-0.50	Ti: 0.80-1.40
501	>0.10	<1.00	<0.04	<0.03	<1.00	.	.	4.00-6.00	0.40-0.65	.	.	
502	<0.10	<1.00	<0.04	<0.03	<1.00	.	.	4.00-6.00	0.40-0.65	.	.	
Duplex	<0.05	<3.00	<0.035	<0.03	<1.50	<2.50*	4.00-7.00	18.00-25.00	0.20-5.50	<0.40	.	

These are specifications,  
not samples for sale.