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CRM PURITY COPPER DISCS AND RODS

listed in mg/kg IMN in SETS only, as grouped IMN CS: 40mm Ø x 25mm or 6mm Ø x 100mm VS: ~40-45mm Ø x ~25mm

Number	Ag	As	Bi	Cd	Co	Cr	Fe	Mn	Ni	P	Pb	S	Sb	Se	Si	Sn	Te	Zn	Other
AVAILABLE INDIVIDUALLY																			
VS M04-K3	299	310	124	285	98	115	419	296	551	261	495	70	332	287	93	489	289	293	
VS M04-K2.2	51.5	54.4	33.0	29.2	31.8	23.7	48.3	35.2	59.8	41.1	54.8	34	42.6	37.7	29.7	43	40	50.4	
VS M04-K2.1	50.9	51.9	32.8	29.2	28.2	30.5	56.8	55.1	72.2	41.9	50.3	41	45.9	62.6	.	55	34.9	49.1	
VS M04-7	50.7	50.5	27.6	26.5	30.6	41.3	84.8	53.0	75.6	39.0	26.8	36.6	60.8	.	13.3	45.4	27.0	68.1	
VS M04-5	30.1	11.0	5.2	1.0	1.0	0.8	5.1	6.4	4.4	0.93	1.9	2.9	8.3	6.1	3.1	2.0	2.9	16.9	
VS M04-6 *	21.0	19.8	10.7	10.0	9.2	11.1	40.4	20.0	32.4	14.0	60	19	22.4	10.6	21	14.6	8	32.4	* SET ONLY
VS M04-K1	15.3	16.0	17.4	15.3	15.2	11.7	25.6	17.5	13.7	12.1	22.4	14.5	17.0	10.3	24.9	10.0	9.6	18.0	
VS M04-1 *	11.2	0.96	.	0.19	.	.	2.0	0.97	0.34	.	1.1	2.9	2.8	3.2	0.7	.	.	.	* SET ONLY
VS M04-4 *	10.4	4.0	2.6	3.1	4.9	3.2	15.4	4.7	16.0	1.1	0.82	3.0	3.5	2.4	2.2	4.8	4.3	7.8	* SET ONLY
VS M04-8 *	5.0	2.4	1.1	0.49	3.0	.	29.1	3.5	1.8	1.3	9.6	8.7	5.8	0.73	4.6	0.96	0.8	3.2	* SET ONLY
VS M04-3 *	2.9	.	0.11	.	0.30	.	3.9	0.49	0.73	.	4.2	4.4	0.55	.	.	0.48	.	0.97	* SET ONLY
VS M04-2 *	0.88	0.6	0.63	0.14	0.26	1.0	40.5	1.1	1.1	2.1	13.2	12.8	0.8	0.7	7.1	1.1	.	2.4	* SET ONLY
AVAILABLE INDIVIDUALLY EXCEPT CS3 WHICH IS SET ONLY																			
IMN CS1	53.1	2.0	1.1	1.0	0.6	(0.3)	18.4	29.0	46.8	57.7	60.5	65.9	3.0	61.5	(3.0)	52.9	2.1	24.1	B:(1.1)
IMN CS2	45.6	7.4	6.2	7.4	3.6	35.8	30.5	35.3	26.7	33.8	38.6	44.9	7.5	39.0	(9.4)	33.7	5.6	8.9	B:(2.8)
IMN CS3	38.9	13.8	12.2	13.4	7.4	10.9	28.3	12.6	11.1	12.1	13.3	18.8	13.0	15.4	(22.2)	13.3	10.6	31.3	B:(4.2)
IMN CS4	237	42.2	39.6	35.5	24.3	7.0	82.0	8.3	7.2	6.3	7.6	41.3	36.8	6.7	(46.5)	6.2	32.9	44.0	B:(21.7)
IMN CS5	320	70.5	59.7	66.1	37.5	1.0	90.9	4.3	4.4	2.0	5.0	12.0	63.9	0.9	(54.8)	0.9	49.8	101	B:(35.2)
Number	Ag	As	Bi	Cd	Co	Cr	Fe	Mn	Ni	P	Pb	S	Sb	Se	Si	Sn	Te	Zn	Other

CRM ELECTROLYTIC COPPER ROD SET

available in SET/6 ONLY listed in mg/kg 3 or 6 mm Ø x 100 mm

Number	Ag	As	Bi	Fe	Ni	Pb	Sb	Sn	Zn	Cu
IMN CF1	45.0	6.7	12.5	42.0	29.0	33.0	24.0	21.0	57.0	Rem
IMN CF2	9.0	1.1	.	2.8	0.7	0.6	1.4	.	2.2	Rem
IMN CF3	3.2	1.8	.	20.0	6.4	8.9	2.2	3.2	3.4	Rem
IMN CF4	18.0	43.0	1.2	3.7	7.8	1.1	11.0	1.0	31.0	Rem
IMN CF5	12.0	2.3	0.25	98.0	3.0	3.2	1.9	1.3	4.7	Rem
IMN CF6	12.0	0.32	(0.012)	1.0	(0.4)	1.8	0.2	(0.06)	.	Rem

CRM COPPER

analysis listed in mg/kg 40 mm Ø x 30 mm

Number	Fe	P	Sn
BAM 391	0.90	3.3	(<0.1)
BAM 390	0.79	1.3	(<0.1)
BAM 392	0.80	7.0	(<0.1)

COPPER WIRE FOR GLOBULE ARC WORK

analysis listed in mg/kg wire form, intended for globule arc work C1C: CRM all others: RM 5 rods 3 mm Ø x 80 mm

Number	Ag	As	Bi	Cd	Co	Cr	Fe	Mn	Ni	Pb	Sb	Se	Sn	Te	Zn	O	P	S	Si
38X C1B	13	0.8	0.1	<0.01	0.03	0.06	1.2	1.2	1.0	0.8	0.6	.	<0.3	0.3	0.45	.	.	.	last
38X C1C	11	0.19	0.10	<0.01	.	<0.005	1.7	(0.005)	0.27	(0.05)	0.10	(0.25)	(0.01)	(0.21)	<0.1	266	<0.05	2.0	<0.1

CHILL CAST PHOSPHORUS DEOXIDIZED COPPER

= Class, where 1 = CRM and 2 = RM, typical analysis

#	Number	P	Cu	Ag	Fe	Al	As	Co	Mn	Ni	Pb	Sb	Sn	Zn	
2	CURM 09.01	0.151	99.82	0.011	0.0019	<0.0005	<0.001	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.001	0.0008
2	CURM 09.02	0.078	99.90	0.0055	0.0042	<0.0005	<0.001	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.001	<0.001
1	SRM C1253a	0.0561	99.46	0.0494	0.0290	0.0176	0.0436	0.0454	0.0357	0.0491	0.0243	0.0139	0.0499	0.0329	
1	SRM C1251a	0.0420	99.89	0.0080	0.0285	(<0.0020)	0.0016	0.00132	0.00046	0.00236	0.00235	0.00149	0.0016	0.0024	
1	SRM C1252a	0.0125	99.87	0.0158	0.0072	(<0.0020)	0.0118	0.0087	0.0043	0.0128	0.0060	0.0042	0.0120	0.00694	
Number	Au	Bi	Cd	Cr	Mg	S	Se	Si	Te	Units					
CURM 09.01	.	<0.0003	.	.	.	.	.	<0.001	.	50 mm Ø x 10-12 mm
CURM 09.02	.	<0.0005	.	.	.	.	.	<0.002	.	50 mm Ø x 10-12 mm
SRM C1253a	0.0072	(0.0056)	0.0070	0.0260	(0.0150)	(0.0050)	0.0136	(0.0580)	0.0168	32 mm x 32 mm x 19 mm					
SRM C1251a	0.00155	0.00037	(<0.0003)	(0.0003)	(<0.0020)	(0.0035)	0.0011	(<0.0050)	0.0016	32 mm x 32 mm x 19 mm					
SRM C1252a	0.00339	(0.0019)	0.00169	0.0019	(<0.0020)	(0.0070)	0.0056	(<0.0100)	0.00546	32 mm x 32 mm x 19 mm					

CRM COPPER IN VARIOUS FORMS

analysis listed in mg/g each of the blow available in 3 forms A: disc 39 mm Ø x 30 mm B: Rod 8 mm Ø x 100 mm C: Chips 50 g

Number	Ag	Al	As	Au	Be	Bi	Cd	Co	Cr	Fe	In	Mg	Mn	Ni	P	Pb	S	Sb	Se	Si	Sn	Te	Ti	Zn	Zr
ERM-EB075	10.8	2.3	3.18	1.46	1.08	1.79	2.69	2.64	1.4	9.3	1.83	7	1.35	2.18	2.59	4.8	25	2.93	1.69	2.6	2.13	1.78	3.2	6.51	.
ERM-EB074	1.03	.	1.23	0.52	0.31	0.51	0.4	0.83	0.37	5.8	0.49	2.03	0.93	0.61	1.53	2.7	(3.3)	0.57	0.55	.	(1.5)	0.5	0.97	2.2	(8.8)

CRM	COPPER RODS																			
analysis listed in mg/kg																			IMN: 6 mm Ø x 100 mm	SRM: ~6.5 mm Ø x 103 mm
Number	Ag	As	Bi	Cd	Co	Cr	Fe	Mn	Ni	O	P	Pb	S	Sb	Se	Sn	Te	Zn	Cu	
SRM 494	50	2.6	0.35	.	0.5	2.0	.	3.7	11.7	.	.	26.5	15	4.5	2.00	70	0.58	400	99.91	
IMN CS7R	13.7	0.9	<0.5	(0.02)	0.09	19.7	4.9	2.2	4.4	.	(2.4)	(0.9)	7.0	1.0	<1.0	0.5	<0.05	.	.	
SRM 495	12.2	1.6	0.50	.	.	6.0	.	5.3	5.4	.	.	3.2	13	8.0	0.63	1.5	0.32	12	99.94	
SRM 457	8.086	<2)	0.22	<1)	0.227	<2)	2.4	0.001	0.67	367	.	0.512	4	0.214	4.05	<0.1)	0.296	<3)	99.97	

SRM 457 also contains Au:<0.05), Cd Si and Ti:<1) IMN CS7R also contains B:<0.5 and Si:<1.0

BERYLLIUM ALLOY

= class, where 1 = CRM and 2 = RM

17025, 17034

#	Number	Be	Co	Ag	Al	Cr	Cu	Fe	Ni	Pb	Si	Sn	Zn	Alloy	Notes
2	CTIF CuBeCo1	3.31	0.192	.	0.034	(0.017)	(94.5)	0.214	1.51	0.0368	(0.35)	0.025	0.0984		Typical Analysis
2	CTIF 4584	2.53	0.04	.	0.033	.	97.05	0.120	0.015	(0.002)	0.166	0.022	0.022		Typical Analysis
2	CTIF 4872	1.93	0.400	.	0.059	(0.04)	97.00	0.107	0.103	0.019	0.16	0.044	0.119	172	Typical Analysis
2	BS 172Be-1	1.89	0.206	.	(0.02)	0.0032	97.68	0.052	0.039	(0.002)	0.055	0.033	0.0070	172	last of stock
1	IARM Cu172-19	1.89	0.0017	0.0011	0.032	0.001	7	(97.6)	0.071	0.237	.	0.045	0.0007	.	172
1	36X CBC4E	1.869	0.215	.	0.0258	.	97.47	0.0274	0.0080	0.329	0.048	0.002	0.003	173	
1	36X CBC3D	1.840	0.209	.	0.019	.	97.77	0.046	0.007	0.0025	0.039	0.0021	0.004		
1	BS 172Be-2	1.83	(0.06)	.	0.032	0.015	97.7	0.127	0.165	0.041	(0.029)	0.015	0.0057	172	17025
2	CTIF 4766	1.58	0.64	.	0.027	(0.2)	96.83	0.165	0.203	0.053	0.11	0.100	0.070		Typical Analysis
2	CTIF CuBeCo6	1.5	(1.90)	1.37	0.135	0.0576	93.09	0.12	(1.45)	0.0397	0.26	0.0135	0.0330		
2	CTIF 4583	0.84	(0.002)	.	0.029	.	96.35	(0.15)	2.02	0.084	0.08	0.25	0.094		Typical Analysis
1	36X CBC6A	0.507	1.045	0.0015	0.0490	.	97.11	0.0243	1.132	0.0014	0.0263	0.0041	0.0010		
2	CTIF CuBeCo4	0.44	1.56	0.468	0.131	0.011	(96.2)	0.0138	0.905	0.0716	(0.05)	0.095	0.061		
1	36X CBC2F	0.439	2.22	0.0013	0.0097	.	97.15	0.0076	0.121	(0.0008)	0.0257	(0.0007)	0.0018		Typical Analysis
1	36X CBC5B	0.404	0.0084	0.0011	0.0104	.	97.61	0.0108	1.905	0.0015	0.004	0.0013	0.0010	175.1	
1	BS 17510	0.35	(0.024)	0.0014	0.042	(0.015)	97.6	0.042	1.70	0.0014	0.137	(0.004)	(0.005)	175.1	17304
2	CTIF 4873	0.10	0.86	.	0.069	0.080	98.60	0.135	0.050	(0.003)	0.071	(0.007)	(0.003)		Typical Analysis

w = wrought and c = cast; D = disc and M = mushroom

Number	As	C	Ca	Mg	Mn	O	P	S	Sb	Te	Zr	Form	Units
CTIF CuBeCo1	0.0303	.	.	.	.	.	.	c	M 60 mm Ø x 5 mm
CTIF 4584	(0.002)	.	.	.	.	.	.	c	M 60 mm Ø x 5 mm
CTIF 4872	0.008	.	.	.	.	.	.	c	M 60 mm Ø x 5 mm
BS 172Be-1	(0.001)	(0.001)	.	.	0.0010	.	0.003	<0.0002)	.	.	.	w	D 38 mm Ø x ~7 mm last
IARM Cu172-19	.	.	.	0.112	0.0019	.	0.0036	0.0010	0.0007	.	.	D	~38 mm Ø x ~3 or ~19 mm
36X CBC4E	.	.	.	0.0035	.	.	0.0027	.	.	.	.	w	D ~38 mm Ø x ~15 mm
36X CBC3D	.	.	.	0.0040	.	.	.	.	.	.	.	w	D 41 mm Ø x 15 mm
BS 172Be-1	(0.00014)	(0.002)	(0.0008)	(0.01)	0.0070	(0.0008)	0.0014	(0.0003)	.	last	(0.0003)	w	D 38 mm Ø x ~7 or ~10 mm
CTIF 4766	0.007	.	.	.	.	.	.	c	M 60 mm Ø x 5 mm
CTIF CuBeCo6	0.0173	.	.	.	.	.	.	c	M 60 mm Ø x 5 mm
CTIF 4583	0.064	.	.	.	.	.	.	c	M 60 mm Ø x 5 mm
36X CBC6A	.	.	.	0.0070	.	.	0.0016	.	.	.	0.0553	w	D ~40 mm Ø x ~15 mm
CTIF CuBeCo4	0.0507	.	.	.	.	.	.	c	M 60 mm Ø x 5 mm
36X CBC2F	.	.	.	0.0036	.	.	0.0067	.	.	.	(0.0006)	w	D ~40 mm Ø x ~15 mm
36X CBC5B	.	.	.	0.0009	.	.	.	.	.	.	.	w	D ~40 mm Ø x ~15 mm
BS 17510	<0.005	(0.003)	<0.005	(0.007)	0.0020	.	(0.005)	<0.05	0.0024	.	0.0011	c	D 38 mm Ø x ~7 or 19+ mm
CTIF 4873	(0.002)	.	.	.	.	.	.	c	M 60 mm Ø x 5 mm

CHROMIUM COPPER

= class, where 1 = CRM and 2 = RM

#	Number	Cr	Ag	Al	Fe	Mn	Ni	Pb	Si	Sn	Zn	Zr	Cu
1	IARM Cu182-18	1.09	0.0008	0.0031	0.041	0.0007	0.0007	0.0019	(0.09)	(0.002)	0.010	0.063	98.8
1	IARM 158C	1.04	(0.01)	0.002	0.090	0.019	0.32	0.01	0.02	0.01	0.014	.	98.5
1	BS 18150A	0.79	.	0.0023	0.007	0.0010	0.0019	0.0011	0.027	0.0144	0.0006	0.203	[98.9]
1	BS 18150	0.74	.	0.0009	0.0047	0.0010	0.0010	0.0005	0.019	0.0097	0.0006	0.113	[99.1]
2	HRT CU2019	0.73	.	.	(0.005)	.	.	.	0.030	0.011	.	0.17	98.97
1	36X 274B	0.333	0.0016	0.0011	0.0165	0.0004	2.59	0.0011	0.645	(0.0008)	(0.0009)	.	96.44

Number	As	C	Co	Mg	N	O	P	S	Sb	Units
IARM Cu182-18	.	.	0.00013	0.0019	.	.	0.0012	0.0018	.	38 mm Ø x 3 or 19 mm
IARM 158C	(0.001)	0.002	0.002	.	<0.0005	0.002	0.005	0.003	0.002	31 mm Ø x 2 or 18 mm
BS 18150A	(0.0003)	0.0010	(0.0003)	.	.	(0.0008)	0.0045	0.0007	(0.0002)	38 mm Ø x ~7 or 19 mm 17025 last
BS 18150	(0.0004)	0.0009	(0.0002)	.	.	(0.0006)	0.0037	0.0007	(0.0001)	38 mm Ø x ~7 or 19+ mm 17025
HRT CU2019	.	.	.	.	.	.	(0.005)	.	(0.006)	40 mm Ø x 20 mm
36X 274B	.	.	0.0042	.	.	.	0.0015	.	.	~40 mm Ø x ~15 mm

Need a larger size?
Most BS items are
available in any height.

CRM CONVERTER COPPER DISC AND ROD SETS

analysis listed in mass % AVAILABLE IN SETS ONLY, AS GROUPED 10 mm Ø x 100 mm

Table with 17 columns (Number, Ag, As, B, Bi, Co, Cu, Fe, Ni, P, Pb, S, Sb, Se, Sn, Te, Zn) and 20 rows of data including elements like IMN CP1 through IMN CG5.

CRM GILDING METAL

Table with 10 columns (Number, Cu, Fe, Ni, P, Pb, Sn, Zn, method, Units) and 4 rows of data including SRM 1114, SRM 1113, and SRM 1112.

CRM GILDING METAL SET

available individually or as a set wrought 40 mm Ø x 25 mm

Table with 18 columns (Number, Ag, Al, As, Be, Bi, Cd, Cu, Fe, Mn, Ni, P, Pb, S, Sb, Si, Sn, Te, Zn) and 6 rows of data including IMN MI1 through IMN MI5.

GUN METAL

C, CURM: 50 mm Ø x 10 - 12 mm 33X GM29: wrought 33 mm Ø x 19 mm other 33X: chill cast ~40 mm Ø x ~15 mm

Table with 18 columns (Number, Zn, Sn, Pb, Ni, Fe, Cu, Ag, Al, As, Bi, Co, Cr, Mn, P, S, Sb, Si) and multiple rows of data including CRM 33X GM9A through CURM 71.34.

CRM MANGANESE ALLOY SET

available individually or as a set 40 mm Ø x 13 mm

Table with 13 columns (Number, Ag, As, Fe, Mn, Ni, P, Pb, Sb, Si, Sn, Zn) and 6 rows of data including IMN CK1 through IMN CK6.

CRM MAGNESIUM ALLOY SET

available in set only 40 mm Ø x 25 mm

Table with 2 columns (Number, Mg) and 5 rows of data including IMN CCB-1 through IMN CCB-5.

NICKEL ALLOY, chart 2 of 2

#	Number	Ni	Ag	Al	Bi	Co	Cr	Cu	Fe	Mn	Nb	P	Pb	S	Si	Sn	Zn
1	IARM 84C	9.8	(0.002)	.	.	(0.006)	.	89.4	0.28	(0.04)	.	(0.06)	0.047	(0.006)	(0.004)	0.13	0.13
1	34X 79830A	9.76	0.0028	0.0012	.	(0.0012)	.	45.88	0.079	0.311	.	0.0047	2.033	(0.0005)	.	0.1158	41.80
1	BS 706C	9.7	.	(0.001)	.	(0.003)	(0.0006)	87.9	1.68	0.60	.	(0.007)	0.0033	0.0014	0.0018	(0.0070)	0.084
1	36X SP1A	8.33	0.005	0.0020	0.0039	0.057	.	84.90	0.45	0.084	(0.031)	(0.003)	0.0115	0.005	0.004	5.75	0.344
2	CURM 62.12	7.94	.	.	.	0.081	.	89.42	0.45	1.59	.	.	0.053	0.034	0.109	0.111	0.180
2	CTIF CN2	7.80	.	(0.012)	.	.	.	88.40	1.68	1.19	(0.007)	.	0.055	0.028	0.26	(0.0065)	0.515
1	IMN MN5-4	5.90	.	.	0.0018	.	.	Rem	0.083	.	.	0.026	0.024	.	.	.	.
1	IMN MN5-3	5.29	.	.	0.0012	.	.	Rem	0.062	.	.	0.016	0.016	.	.	.	.
1	36X CN21A	5.50	0.0064	1.95	.	0.0079	0.0050	92.17	0.0316	0.0391	.	0.053	0.051	.	.	0.038	0.0203
1	IMN MN5-2	4.50	.	.	0.00071	.	.	Rem	0.033	.	.	0.010	0.012	.	.	.	.
1	IMN MN5-1	3.21	.	.	0.00011	.	.	Rem	0.0041	.	.	(0.00027)	0.0062	.	.	.	.
2	HRT CU2012	2.30	.	.	.	.	.	97.0	0.013	0.002	.	.	.	.	0.63	0.035	.
1	37X 218B	1.892	.	0.0018	.	.	0.176	97.29	0.0209	0.0022	.	.	0.0014	.	0.564	0.0032	0.0054

Number	As	B	Be	C	Cd	Mg	Sb	Ti	Zr	Units
IARM 84C	.	.	.	(0.003)	.	.	(0.0012)	.	.	31 mm Ø x 2 or 18 mm
34X 79830A	0.0070	.	.	(0.0052)	.	.	0.0041	.	.	~38 mm Ø x ~15 mm
BS 706C	(0.001)	0:0.0016	N:(0.005)	(0.004)	.	(0.000003)	(0.0006)	.	(0.0000002)	38 mm Ø x ~7 or 19+ mm
36X SP1A	.	0.0007	.	.	.	.	0.0177	(0.0004)	.	40 mm Ø x 15 mm
CURM 62.12	.	.	.	.	.	0.002	.	.	.	60 mm Ø x 10 mm
CTIF CN2	.	.	.	(0.008)	.	.	.	.	.	60 mm Ø x 5 mm
IMN MN5-4	0.0038	.	.	.	.	.	0.0019	.	.	35 mm Ø x 30 mm
IMN MN5-3	0.0017	.	.	.	.	.	0.0013	.	.	35 mm Ø x 30 mm
36X CN21A	0.0067	.	.	.	0.0021	.	.	.	.	40 mm Ø x ~17 mm
IMN MN5-2	0.0011	.	.	.	.	.	0.00078	.	.	35 mm Ø x 30 mm
IMN MN5-1	0.0007	.	.	.	.	.	0.00019	.	.	35 mm Ø x 30 mm
HRT CU2012	.	.	.	.	.	.	.	.	.	40 mm Ø x 20 mm
37X 218B	.	.	.	.	.	.	.	.	.	~38 mm Ø x ~15 mm

CRM NICKEL ALLOY SETS

analysis listed in mass %

NA: 28 mm Ø x 25 mm MN5: 35 mm Ø x 30 mm N: 35 mm Ø x 30 mm
NB: 40 mm Ø x 25 mm NC: 40 mm Ø x 12 mm

Number	Ni	Al	As	Bi	C	Cd	Co	Fe	Mg	Mn	P	Pb	S	Sb	Si	Sn	Zn	singles?
IMN NC1	23.17	.	0.0056	0.0011	0.0320	0.0142	0.0062	0.0501	0.0016	0.552	0.0147	0.0025	0.0709	0.0024	0.0854	0.0374	0.776	no
IMN NC2	24.21	0.0219	0.0104	0.0046	(0.0026)	0.0189	0.0115	0.290	0.0024	0.413	.	0.0021	0.0837	0.0049	0.196	0.0457	0.508	yes
IMN NC3	24.68	0.229	0.0167	0.0077	(0.0036)	0.0120	0.0282	0.106	0.0561	0.148	0.0312	0.0027	(0.0202)	0.0084	0.0609	0.0171	0.244	yes
IMN NC4	25.39	0.332	0.0251	0.0117	0.0500	0.0049	0.101	0.426	0.0170	0.0172	0.0113	0.0120	0.0022	0.0113	0.0197	0.0087	0.0099	yes
IMN NC5	25.82	0.0749	0.0427	0.0213	0.0050	0.0018	0.151	0.369	0.0861	0.0623	0.0222	0.0409	.	0.0161	0.0198	0.0044	0.0152	yes
IMN N1	25.38	.	.	.	.	0.0050	0.0056	.	0.0018	.	.	0.0019	.	.	0.0070	0.0089	0.019	yes
IMN N2	24.28	.	.	.	.	0.023	0.35	.	0.21	.	0.011	.	.	0.025	0.012	0.16	yes	
IMN N3	22.57	.	.	.	.	0.055	0.77	.	0.50	.	0.020	.	.	0.062	0.023	0.33	yes	
IMN N4	21.39	.	.	.	.	0.080	1.07	.	0.71	.	0.039	.	.	1.03	0.038	0.47	yes	
IMN NA1	7.19	.	.	(0.020)	.	.	2.52	.	1.51	.	0.081	(0.081)	.	.	.	0.80	yes	
IMN NA2	9.05	.	.	(0.023)	.	.	2.03	.	1.03	.	0.056	(0.065)	.	.	.	0.55	yes	
IMN NA3	10.35	.	.	(0.019)	.	.	1.15	.	0.60	.	0.035	(0.036)	.	.	.	0.30	yes	
IMN NA4	12.15	.	.	(0.012)	.	.	0.50	.	0.21	.	0.0066	(0.0069)	.	.	.	0.019	yes	

CRM SEBILOY / ENVIROBRASS / FEDERALLOY

Number	Sn	Zn	Bi	Se	As	Co	Fe	Ni	P	Pb	Sb	Cu
IARM 266A	6.9	3.48	2.37	0.001	0.004	(0.001)	0.035	0.46	0.032	0.010	0.010	(87)
32X SEB5C	5.18	5.30	1.056	0.471	.	0.0156	0.0430	0.317	0.072	0.268	0.0334	87.21
IARM 226A	5.1	4.8	1.7	0.93	0.003	0.001	0.054	0.54	0.005	0.040	0.004	86.7
IARM 227A	5.1	4.70	2.3	1.21	0.003	0.001	0.060	0.53	0.003	0.042	<0.01	85.9
IARM 265A	4.4	2.45	2.4	(0.002)	(0.005)	(0.001)	0.013	0.69	0.024	0.011	0.015	(90)
IARM 228A	4.1	4.1	1.53	0.67	0.003	0.001	0.052	0.45	0.032	0.026	0.010	89.0
IARM 263A	3.5	15.8	2.55	(0.002)	0.003	0.001	0.047	0.66	0.040	0.022	0.06	(78)
IARM 264A	3.03	5.33	3.6	(0.001)	(0.004)	(0.001)	0.048	0.54	0.027	0.057	0.074	(87.3)

Number	Ag	Al	B	C	Cd	Cr	Mn	N	O	S	Si	Units
IARM 266A	(0.001)	0.002	.	(0.002)	.	(0.002)	(0.002)	.	.	(0.002)	0.002	31 mm Ø x 2 mm
32X SEB5C	.	(0.001)	.	.	0.0051	.	.	.	.	0.050	.	~40 mm Ø x ~15 mm
IARM 226A	0.004	0.002	.	0.003	.	(0.001)	0.002	<0.0005	(0.001)	0.005	0.002	31 mm Ø x 2 mm
IARM 227A	0.004	0.002	.	0.003	.	(0.001)	0.001	(0.0002)	0.0013	0.005	0.002	31 mm Ø x 2 mm
IARM 265A	(0.002)	0.003	.	.	.	(0.001)	(0.002)	.	.	(0.002)	0.003	31 mm Ø x 2 mm
IARM 228A	0.003	0.002	.	0.003	.	0.001	0.001	<0.0005	(0.002)	0.004	0.002	31 mm Ø x 2 or 18 mm
IARM 263A	(0.006)	(0.002)	.	<0.005	.	(0.002)	(0.002)	.	.	(0.002)	0.003	31 mm Ø x 2 or 18 mm
IARM 264A	(0.005)	0.003	.	(0.004)	.	(0.002)	(0.002)	.	.	0.0013	0.003	31 mm Ø x 2 or 18 mm

CRM PHOSPHORUS ALLOY

40 mm Ø x 25 mm

Number	P	As	Bi	Cu	Fe	Ni	Pb	Sb	Se	Sn	Te	Zn
IMN CO2	11.60	0.0050	0.0049	Rem	0.096	0.013	0.070	0.065	(0.0045)	0.35	(0.0055)	0.15
IMN CO5	9.45	0.0023	0.00095	Rem	0.11	0.0082	0.0044	0.034	(0.0015)	0.55	(0.0023)	0.061
IMN CO3	8.56	0.011	0.015	Rem	0.11	0.10	0.10	0.14	(0.0073)	0.037	(0.0080)	0.24
IMN CO4	5.54	0.016	0.0086	Rem	0.29	0.25	0.29	0.092	(0.010)	0.13	(0.012)	0.029

RM SILVER ALLOY

31 mm Ø x 2 or 18 mm

Number	Ag	C	P	S	Zr
IARM 159A	3.48	(0.002)	(<0.01)	(<0.01)	.
IARM 160A	3.03	0.003	(0.004)	(<0.003)	0.40

Al, Co, Cr, Fe, Mn, Ni, Pb, Si, Sn, and Zn: (<0.01)

CRM SILVER ALLOY SET

available in set only 40 mm Ø x 25 mm

Number	Ag
IMN CCA-1	0.00720
IMN CCA-2	0.0539
IMN CCA-3	0.757
IMN CCA-4	1.524
IMN CCA-5	1.964

RM TIN COPPER

cast typical analysis

32X: 40 mm Ø x 15 mm

C: 50 mm Ø x 10-12 mm

Number	Sn	Al	As	Bi	Cu	Fe	Mg	Mn	Ni	P	Pb	S	Sb	Si	Zn
C11.04	9.6	<0.005	<0.005	<0.0005	rem	<0.005	<0.001	<0.005	<0.005	0.05	0.01	<0.001	<0.005	<0.005	<0.005
C11.03	7.4	<0.005	<0.005	<0.0005	rem	<0.005	<0.001	<0.005	<0.005	0.04	0.01	<0.001	<0.005	<0.005	<0.005
C11.02	5.5	<0.005	<0.005	<0.0005	rem	<0.005	<0.001	<0.005	0.006	0.02	0.02	<0.001	<0.005	<0.005	<0.005
C11.01	3.4	<0.005	<0.005	<0.0005	rem	<0.005	<0.001	<0.005	0.006	0.009	0.01	<0.001	<0.005	<0.005	<0.005

CRM TIN COPPER SET

available in SET/5 or individually

40 mm Ø x 30 mm

Number	Ag	As	Bi	Cu	Fe	Ni	P	Pb	Sb	Sn	Zn
IMN CM1	0.010	0.0098	0.010	Rem	0.019	0.0086	0.0088	0.012	0.012	0.61	0.021
IMN CM2	0.0061	0.0068	0.0072	Rem	0.0064	0.0055	0.0058	0.0067	0.0068	0.84	0.0061
IMN CM3	0.0029	0.0036	0.0033	Rem	0.012	0.0031	0.0041	0.0038	0.0040	1.06	0.0060
IMN CM4	0.0011	0.0011	0.00093	Rem	0.0042	0.0011	0.0009	0.0023	0.0019	1.30	0.0020
IMN CM5	.	(0.015)	0.014	Rem	0.0094	0.014	0.015	0.019	0.018	1.14	0.013

CRM BRASS SETS

wrought IMN MG2 in SET only, all others OK individually MB: 40 mm Ø x 18 mm ME, MG, WR: 35-40 mm Ø x 25-30 mm WC: 40 mm Ø x 12 mm

Number	Cu	Zn	Al	As	Bi	Cd	Co	Cr	Fe	Mn	Ni	P	Pb	Sb	Si	Sn
IMN MG1	91.14	Rem	0.040	.	0.00058	.	.	.	0.0081	0.0013	0.048	(0.0019)	0.049	0.00077	.	0.0062
IMN MG2	90.08	Rem	(0.0026)	.	0.00039	.	.	.	0.0067	0.0007	0.0022	0.0012	0.0048	(0.00084)	.	0.018
IMN MG3	93.19	Rem	0.020	.	0.0014	.	.	.	0.062	0.0096	0.013	0.018	0.015	0.0026	.	0.033
IMN MG4	94.00	Rem	.	.	0.0017	.	.	.	0.091	0.024	0.0042	0.012	0.008	0.0045	.	0.023
IMN MG5	95.09	Rem	0.0011	.	0.0026	.	.	.	0.149	0.0036	0.0021	0.0069	0.0054	0.0061	.	0.013
IMN MG6	92.27	Rem	0.0067	.	0.00088	.	.	.	0.028	0.045	0.030	0.0026	0.0031	0.0015	.	0.053
IMN WC1	75.10	Rem	0.0034	0.0043	0.0028	.	.	.	0.031	.	.	0.015	0.046	0.0034	0.26	0.0032
IMN WC2	75.05	Rem	0.0016	0.0024	0.0020	.	.	.	0.015	.	.	0.011	0.031	0.0023	0.41	0.0025
IMN WC3	75.28	Rem	0.0018	0.0011	0.00093	.	.	.	0.021	.	.	0.0058	0.0085	0.0010	0.89	0.0011
IMN WC4	75.32	Rem	0.00096	.	0.00047	.	.	.	0.0067	.	.	0.0048	0.0051	0.00080	0.76	0.0010
IMN WC5	75.03	Rem	0.00084	0.0022	0.0019	.	.	.	0.18	.	.	.	0.0055	0.0011	0.48	0.0044
IMN WC6	75.32	Rem	0.0019	0.00097	0.0012	.	.	.	0.051	.	.	0.0037	0.0036	0.00057	0.58	0.0028
IMN ME2	71.29	Rem	.	.	.	.	.	.	.	.	.	.	.	.	.	0.87
IMN ME3	70.70	Rem	.	.	.	.	.	.	.	.	.	.	.	.	.	1.11
IMN ME4	69.40	Rem	.	.	.	.	.	.	.	.	.	.	.	.	.	1.21
IMN ME5	68.53	Rem	.	.	.	.	.	.	.	.	.	.	.	.	.	1.42
IMN MB2	67.17	32.80	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IMN MB3	73.26	26.67	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IMN MB6	90.07	9.95	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IMN MB7	95.00	4.99	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IMN WR1	55.72	Rem	0.496	0.203	0.00109	0.00045	0.00196	0.00049	0.0577	1.051	3.534	0.00122	0.0496	0.00046	1.097	0.605
IMN WR2	56.99	Rem	1.092	0.0129	0.00642	0.00548	0.00210	0.00705	0.802	1.631	2.683	0.0311	0.291	0.00566	0.817	0.453
IMN WR3	58.95	Rem	1.683	0.0492	0.0118	0.00807	0.0106	0.0149	0.184	1.674	1.799	0.0126	0.514	0.0150	0.566	0.254
IMN WR4	60.07	Rem	2.297	0.00528	0.0211	0.0154	0.0154	0.0190	0.600	2.254	0.989	0.0213	0.683	0.0247	0.279	0.100
IMN WR5	61.20	Rem	3.024	0.00129	0.0278	0.0200	0.0196	0.0253	0.141	3.070	0.251	0.0282	0.885	0.0334	0.0485	0.0116

Number	Cu	Zn	Al	As	Bi	Cd	Co	Cr	Fe	Mn	Ni	P	Pb	Sb	Si	Sn
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RM TRACE ELEMENTS IN BRASS

cast 50 mm Ø x 10 - 12 mm

Number	Cu	Zn	Al	As	Bi	Fe	Mn	Ni	Pb	Sb	Si	Sn
C30.10	93.8	6.1	<0.002	<0.005	<0.002	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.01
C30.07	82.0	rem	<0.002	<0.005	<0.002	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.01
C30.06	74.8	rem	<0.005	<0.005	<0.002	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.01
CURM 30.05	69.48	30.53	<0.001	<0.001	<0.003	<0.003	<0.0005	<0.0005	<0.002	<0.005	<0.001	<0.001
C38.06	(62)	rem	<0.001	<0.005	<0.001	<0.002	<0.002	<0.005	<0.005	<0.002	<0.002	<0.002
C38.06-1	(62)	rem	<0.001	<0.001	<0.0005	<0.005	<0.001	<0.005	0.002	<0.002	<0.002	<0.002
C30.17	61.6	rem	<0.005	<0.005	<0.005	1.4	<0.005	0.01	0.01	<0.005	<0.005	<0.01
C30.16	61.2	rem	<0.002	<0.005	<0.002	0.90	<0.005	<0.01	<0.01	<0.005	<0.005	<0.01
C38.01	(61)	rem	0.003	0.03	<0.0005	0.01	0.009	0.01	0.20	0.02	<0.0005	0.20
C38.02	(61)	rem	0.004	0.06	0.005	0.09	0.14	0.03	0.10	0.06	0.01	0.09
C38.03	(61)	rem	0.06	0.08	0.008	0.05	0.07	0.13	0.06	0.08	0.07	0.05
C38.04	(61)	rem	0.02	0.04	0.008	0.04	0.22	0.06	0.03	0.12	0.12	0.02
C38.05	(61)	rem	0.12	0.01	0.01	0.008	0.02	0.19	0.02	0.01	0.14	0.01
C30.12	60.85	rem	<0.005	<0.005	<0.002	<0.005	0.90	0.52	<0.01	<0.005	<0.005	<0.01
C30.03	60.6	39.3	<0.002	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.01
C30.13	60.6	rem	<0.002	<0.005	<0.002	<0.005	1.9	<0.01	<0.01	<0.005	<0.005	<0.01
C30.15	60.6	rem	<0.002	<0.005	<0.002	0.55	<0.005	<0.01	<0.01	<0.005	<0.005	<0.01
C30.14	60.5	rem	<0.005	<0.005	<0.005	<0.01	2.4	1.0	<0.01	<0.005	<0.005	<0.005
C30.22	58.28	rem	<0.003	0.011	<0.005	0.006	<0.005	<0.01	1.05	<0.012	<0.005	0.009
C30.02	55.6	rem	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01
C30.01	51.48	rem	<0.002	<0.005	0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01

last of stock

current batch

RM BRASS MUSHROOMS

chill cast typical analysis 60 mm Ø x 5 mm

Number	Zn	Cu	Al	As	Be	Fe	Ni	Mg	Mn	P	Pb	Sb	Si	Sn
CTIF L 7	42.45	55.6	0.308	.	.	0.031	0.020	.	0.62	.	0.71	.	0.13	0.038
CTIF L 1-1	39.7	59.60	0.015	.	.	0.017	0.106	.	.	0.080	0.062	.	0.36	0.046
CTIF L 2	35.55	61.55	0.485	.	.	0.216	0.71	.	0.350	.	0.408	.	0.202	0.48
CTIF L 3-1	35.50	(58.60)	1.22	0.073	.	0.357	0.993	.	0.214	0.030	1.32	(0.032)	0.025	1.62
CTIF L 4-1	34.55	61.75	0.100	.	.	0.466	0.227	.	0.109	.	2.017	.	0.12	0.693
CTIF L 6	30.26	66.55	0.139	.	.	0.085	1.21	.	0.055	.	0.205	.	1.25	0.250
CTIF L 23	17.90	81.20	.	0.051	.	0.246	0.033	.	.	0.05	0.058	.	0.280	0.20
CTIF UZ 52	16.90	81.18	.	.	0.014	0.32	0.084	0.04	0.002	0.068	0.11	0.08	0.12	1.06
CTIF UZ 53	16.67	82.60	.	0.01	.	0.255	0.025	.	<0.001	0.055	0.025	.	0.145	0.205
CTIF L 21	15.40	82.50	.	0.103	.	0.086	0.156	.	0.004	0.05	0.209	0.10	0.036	1.5
CTIF L 22	15.0	84.3	<0.02	<0.006	.	0.20	0.10	.	<0.01	.	0.10	.	<0.05	1.0
CTIF L 20	13.10	85.55	0.008	0.122	.	0.115	0.205	.	0.043	.	0.27	.	0.035	0.56

BRASS

= class, where 1 = CRM and 2 = RM

CURM: cast 50 mm Ø x 10-12 mm
SRM: wrought 31 mm Ø x 19 mm

PB: 45 mm Ø x 25 mm
others: chill cast ~38-43 mm Ø x ~15-18 mm

#	Number	Zn	Cu	Al	As	Bi	Fe	Mn	Ni	Pb	Sb	Si	Sn
1	31X B25C	42.2	55.6	0.48	0.027	0.061	0.014	0.128	0.255	0.272	0.075	0.235	0.62
1	31X B2N	39.1	60.2	0.161	0.0154	0.0150	0.122	0.0361	0.102	0.053	0.0121	.	0.0129
2	CURM 30.15	38.88	60.66	<0.001	.	.	0.50	<0.001	<0.001	<0.005	.	<0.005	<0.002
2	CURM 30.16	38.33	60.53	<0.001	.	.	1.14	<0.001	<0.001	<0.005	.	<0.005	<0.002
2	CURM 30.11	38.17	59.86	<0.001	.	.	0.002	0.23	1.70	0.005	.	<0.001	<0.002
1	IARM 75C	38.1	60.7	(0.003)	(0.005)	(0.0012)	(0.06)	(0.0024)	(0.013)	0.42	(0.007)	(0.005)	0.69
2	SRM 1107	37.3	61.2	.	.	SRM 1107	0.037	.	0.098	0.18	.	.	1.04
1	31X TB3L	37.0	62.42	0.044	0.047	0.0085	0.040	0.034	0.031	0.118	0.053	0.020	0.133
1	31X TB1L	36.8	61.5	0.174	0.052	0.049	0.072	0.287	0.199	0.325	0.101	0.097	0.214
1	31X B10N	36.6	60.9	0.149	0.0099	0.021	0.135	0.160	1.56	0.022	0.0207	0.012	0.047
1	31X TB4G	33.64	66.07	0.0041	0.0106	0.0058	0.0340	0.0013	0.0133	0.0246	0.0095	0.0203	0.0197
1	31X B5L	23.98	75.38	0.0138	0.0357	0.0088	0.038	(0.002)	0.0275	0.084	0.016	(0.005)	0.266
1	31X B22G	17.8	80.5	0.100	0.150	0.148	0.107	0.00076	0.142	0.197	0.147	0.152	0.225
1	31X B7L	15.34	84.22	0.0435	0.0054	0.0607	0.099	0.0088	0.0351	0.0416	0.0196	0.018	0.089
1	SRM 1110	15.2	84.5	.	.	.	0.033	.	0.053	0.033	.	.	0.051
1	SRM 1111	12.8	87.1	.	.	.	0.010	.	0.022	0.013	.	.	0.019
1	31X B9M	4.92	94.81	(0.0006)	0.0103	0.0059	0.0361	0.0006	0.0379	0.090	0.0089	.	0.062
2	PB MS10	.	84.26	.	0.014	0.37	0.28	0.016	0.025	0.020	(0.009)	0.12	0.052
1	BAM M396	.	65.49	0.223	0.0590	0.00032	0.0235	0.00445	0.0143	.	0.00061	.	.
1	IMN MF6	.	63.36	0.014	.	0.00025	0.010	0.051	0.038	0.0023	0.00084	0.30	0.010

Number	Ag	B	C	Cd	Co	Cr	P	S	Se	Te
31X B25C	0.0025	.	.	0.00019	.	(0.0002)	0.116	.	.	.
31X B2N	0.0118	0.0029	.	0.0032	0.042	.	0.0191	.	.	0.0015
CURM 30.15	.	.	.	.	.	.	.	.	.	.
CURM 30.16	.	.	.	.	.	.	.	.	.	.
CURM 30.11	.	.	.	.	.	.	.	.	.	.
IARM 75C	.	<0.1	(0.002)	(0.0015)	(0.0007)	0.0009	(0.004)	(0.0015)	(0.005)	.
SRM 1107	.	.	.	.	.	.	.	.	.	.
31X TB3L	0.011	0.0014	.	0.0078	0.0043	.	.	.	.	0.0025
31X TB1L	0.061	0.0005	.	0.0122	0.0017	0.0024	0.0080	(0.002)	(0.0008)	(0.004)
31X B10N	0.0030	.	.	0.0005	0.0062	0.0006	0.033	.	(0.0009)	.
31X TB4G	.	(0.0004)	.	0.0032	0.0067	.	.	.	.	0.0035
31X B5L	.	(0.0009)	.	0.0040	0.0250	.	.	.	.	.
31X B22G	0.0015	0.0029	.	0.0130	0.059	(0.0006)	0.214	.	(0.0007)	.
31X B7L	.	0.0013	.	0.0064	0.0044	.	.	.	.	(0.002)
SRM 1110	.	.	.	.	.	.	.	.	.	.
SRM 1111	.	.	.	.	.	.	.	.	.	.
31X B9M	0.0065	(0.0005)	.	.	.	.	0.0047	.	0.0019	0.0181
PB MS10	.	.	.	.	.	.	.	.	last	.
BAM M396	.	.	.	0.00022	0.00012	0.00079	0.00089	.	<0.001	.
IMN MF6	.	.	.	.	.	.	0.0012	.	.	.

38 mm Ø x 30 mm
40 mm Ø x ~30 mm

ALUMINUM BRASS

= class, where 1 = CRM and 2 = RM

#	Number	Al	Zn	Cu	As	Bi	Fe	Mn	Ni	Pb	Sb	Si	Sn	Other	Units
2	CTIF LH1-1	7.99	16.90	64.90	.	.	4.48	5.18	0.0944	0.022	0.081	0.205	(0.007)	P: 0.079	60 mm Ø x 5 mm
2	CTIF LH 2	6.20	21.95	61.98	.	.	2.98	3.65	3.00	0.080	.	0.086	0.055	.	60 mm Ø x 5 mm
2	CTIF LH 6-1	6.09	18.98	63.18	.	.	(3.1)	4.54	3.19	0.25	.	0.20	0.257	.	60 mm Ø x 5 mm
1	BAM 388	4.972	4.81	89.27	.	.	0.0303	0.0512	0.00736	0.000969	.	.	0.857	.	40 mm Ø x 30 mm
2	C30.19	4.65	rem	69.9	<0.005	<0.002	<0.005	<0.005	<0.01	<0.01	<0.01	<0.005	1.07	.	50 mm Ø x 10-12 mm
1	31X B14G	4.02	36.52	58.85	0.0091	0.0103	0.0183	0.0117	0.0190	0.0104	0.0139	0.051	0.486	Ag:0.0130 Co:0.0109	~40mmØ x ~15mm
2	CTIF LH 5-1	3.65	25.72	66.0	.	.	1.26	1.37	1.57	0.110	.	0.114	0.141	.	60 mm Ø x 5 mm
2	CURM 30.18	3.28	32.33	63.66	.	.	0.006	<0.001	<0.001	<0.005	.	0.131	0.58	.	50 mm Ø x 10-12 mm
2	CTIF LH 7	3.16	(26.85)	63.40	.	.	(2.35)	2.96	0.70	0.327	.	0.055	0.227	.	60 mm Ø x 5 mm
1	31X B15H	2.98	36.80	59.07	0.0048	0.0074	0.0176	0.0122	0.0102	0.0073	0.0111	0.109	0.944	Ag:0.0071 Co:0.0046	~40mmØ x ~15mm
2	C30.18	2.91	rem	64.36	<0.005	<0.003	<0.005	<0.005	<0.005	<0.01	<0.005	0.10	0.65	.	50 mm Ø x 10-12 mm
2	CURM 43.01	2.75	22.44	74.36	0.118	<0.002	0.008	0.064	0.121	<0.002	<0.001	0.063	0.116	.	50 mm Ø x 10-12 mm
2	CTIF LH 10	2.66	28.90	59.05	.	.	(1.0)	3.57	1.49	1.76	.	1.30	0.203	.	60 mm Ø x 5 mm
2	CURM 43.02	2.40	20.82	76.21	0.083	<0.001	0.128	0.035	0.068	0.064	<0.001	0.038	0.060	.	50 mm Ø x 10-12 mm
2	CURM 30.20	2.32	35.71	61.46	.	.	<0.005	<0.001	<0.001	<0.002	.	0.17	0.40	.	50 mm Ø x 10-12 mm
2	CTIF LH 13	2.00	31.8	55.75	.	.	(2.00)	3.14	3.22	0.67	.	0.21	1.19	.	60 mm Ø x 5 mm
1	31X B16H	1.98	37.18	58.37	0.0056	0.0042	0.0162	0.0029	0.0076	0.0295	0.0126	0.197	2.13	Ag:0.0052 Co:0.0023	~40mmØ x ~15mm
2	C43.03	1.6	rem	79.7	<0.005	<0.005	0.07	<0.002	<0.005	0.10	<0.01	<0.005	<0.005	.	50 mm Ø x 10-12 mm
1	BAM 368 *	1.972	rem	77.049	0.0246	.	0.0193	0.0203	0.0258	0.01313	(0.002)	.	0.0147	P: 0.00899	50 mm Ø x 5 mm
2	C30.21	1.44	rem	56.0	<0.005	.	<0.005	<0.005	<0.005	<0.005	<0.01	0.18	1.96	.	50 mm Ø x 10-12 mm
2	CURM 30.21	1.44	40.08	56.23	.	.	0.003	<0.001	<0.001	0.004	.	0.213	2.01	.	50 mm Ø x 10-12 mm
2	CTIF LH 12	1.13	33.15	62.75	.	.	(1.2)	0.125	0.505	0.21	.	(0.06)	0.83	.	60 mm Ø x 5 mm
2	CTIF LH 11	0.46	26.20	66.80	.	.	0.36	0.71	2.91	1.26	.	0.88	0.44	.	60 mm Ø x 5 mm

* BAM 368 also contains 62.1 ppm Mg

CRM ALUMINUM BRASS SET

IMN W02 available in SET/4 only, others individually

40 mm Ø x 35 mm

Number	Al	As	Bi	Cd	Cr	Cu	Fe	Mg	Mn	Ni	P	Pb	Sb	Si	Sn	Zn
IMN W01	1.33	0.056	0.0003	0.013	0.013	78.85	0.13	0.00060	0.014	0.0043	0.0023	0.15	0.0083	0.044	0.011	Rem
IMN W02	1.76	0.041	0.0014	0.032	0.0098	77.80	0.050	0.0066	0.16	0.031	0.0090	0.098	0.00098	0.013	0.056	Rem
IMN W03	2.15	0.015	0.0047	0.039	0.0027	77.58	0.029	0.0055	0.051	0.11	0.0062	0.054	0.0035	0.007	0.0071	Rem
IMN W04	2.50	0.030	0.0098	0.0063	0.00034	76.20	0.022	0.013	0.074	0.077	0.015	0.020	0.0058	0.001	0.13	Rem

CRM BISMUTH BRASS

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

~38-40 mm Ø x ~15 mm

Number	Bi	Zn	Cu	Ag*	Al	As	B*	Cd*	Co	Cr*	Fe	Mn	Ni	P	Pb	S*	Sb	Se*	Si	Sn
31X BIB1E	1.96	34.0	62.7	14	0.213	0.0290	.	91	0.0057	.	0.074	0.0266	0.301	0.062	0.090	(30)	0.012	(10)	0.065	0.376
31X BIB2-21	1.11	37.1	58.7	.	0.81	0.025	.	62	0.026	.	0.122	0.0258	0.58	0.035	0.131	.	0.083	.	0.18	1.31
31X BIB4D	0.80	34.8	62.9	14	0.435	0.0095	19	22	0.0108	6	0.094	0.00082	0.211	0.039	0.096	(50)	0.022	11	0.060	0.58

RM CARTRIDGE BRASS

cast typical analysis listed in mass %

31X: ~40 mm Ø x ~15 mm

others: 50 mm Ø x 10 - 12 mm

Number	Zn	Cu	Al	As	Bi	Cd	Cr	Fe	Mg	Mn	Ni	P	Pb	S	Sb	Si	Sn
CURM 48.01	32.6	66.98	<0.001	0.067	0.038	<0.0003	*	0.049	0.0008	<0.001	0.134	0.016	0.106	<0.001	0.047	0.041	<0.002
CURM 48.02	32.58	67.16	0.013	0.025	0.004	*	0.004	0.053	*	0.067	<0.001	0.012	0.084	0.007	0.037	0.010	0.035
CURM 48.05	31.0	68.69	<0.002	<0.001	*	<0.0003	*	0.066	*	0.016	0.117	0.007	<0.003	0.013	*	0.026	0.083
31X B4N	30.22	69.3	Cr:0.0013	0.059	0.0139	0.032	0.0083	0.043	.	0.032	0.019	0.0083	0.080	(0.002)	0.006	0.030	0.046
C48.03	rem	70.45	0.007	0.079	0.029	0.013	0.0005	<0.001	0.001	0.040	0.030	<0.001	0.054	0.004	0.097	<0.002	0.047
C48.06	rem	71.6	0.002	0.008	0.004	0.008	0.0006	0.02	0.001	0.006	0.11	0.002	0.02	0.006	0.006	0.006	0.03
CURM 48.04	26.99	72.68	<0.001	0.034	0.014	<0.0003	<0.002	0.008	0.0005	0.012	0.096	0.006	0.043	0.011	0.026	0.004	0.018

* For the above chart, * indicates a value of <0.0005

CRM CARTRIDGE BRASS

available in SET/5 or individually remainder is Zinc

wrought 40 mm Ø x 25 mm

Number	Ag	Al	As	Be	Bi	Cd	Cu	Fe	Mn	Ni	P	Pb	S	Sb	Si	Sn	Te
IMN MH1	0.0029	0.0010	0.0670	0.0088	0.0037	0.0260	65.93	0.0170	0.0350	0.2600	0.0160	0.0065	0.0034	0.0004	0.0740	0.1400	0.0004
IMN MH2	0.0110	0.0190	0.0410	0.0015	0.0022	0.0180	68.25	0.0270	0.0110	0.2200	0.0055	0.0210	0.0055	0.0240	0.0540	0.0970	0.0015
IMN MH3	0.0065	0.0081	0.0160	0.0003	0.0011	0.0089	71.28	0.0810	0.0850	0.1000	0.0035	0.0780	0.0090	0.0130	0.0310	0.0240	0.0046
IMN MH4	.	0.0027	0.0011	0.0045	0.0006	0.0029	69.94	0.1300	0.0017	0.0520	0.0022	0.3300	0.0043	0.0170	0.0160	0.0110	0.0035
IMN MH5	0.0250	0.0140	0.0038	0.00004	.	0.0012	72.87	0.1900	0.0720	0.0072	0.0011	0.2000	0.0180	0.0035	0.0039	0.0021	0.0047

CRM CARTRIDGE BRASS SETS

Table with columns: Number, Cd, Cr, Cu, Se, Zn, Zr, Units. Rows include IMN MJ1, IMN MJ2, IMN MJ3, IMN MJ4, IMN MJ5, IMN MJJ1, IMN MJJ2, IMN MJJ3, IMN MJJ4.

CRM FREE CUTTING BRASS SET

40 mm Ø x 25 mm

Table with columns: Number, Al, As, Bi, Cu, Fe, Mn, Ni, P, Pb, Sb, Si, Sn, Zn. Rows include IMN WN1, IMN WN2, IMN WN3, IMN WN4, IMN WN5.

LEADED BRASS

= class, where 1 = CRM and 2 = RM

Large table with columns: #, Number, Pb, Sn, Zn, Cu, Al, As, Bi, Co, Fe, Mn, Ni, P, Sb, Si. Rows include IARM Cu844-18, IMN BR1, IARM Cu836-18, IMN WD-1, SRM 1124, IMN WD-2, CURM H30.24, 33X RB2B, BS 360C, BS 360B, IARM Cu360-18, IMN WD-3, BS 360D, 31X B19S, 31X 7835-2L, 31X CZ132A, IMN WD-7, HRT CU2015, 31X CZ122A, BAM M394, BAM M394a, IMN WD-4, 31X 7835-3K, IMN WD-5, 31X 7835-6D, 31X CZ114A, BS 857B-1, BS 857B-2, BS 857B-3, BS 857B-4, 31X CZ115A, 31X 7835-4K, IMN WD-6, 31X CZ112A.

Table with columns: Number, Ag, B, Be, C, Cd, Cr, Mg, O, S, Se, Te, Units. Rows include IARM Cu844-18, IMN BR1, IARM Cu836-18, IMN WD-1, SRM 1124, IMN WD-2, CURM H30.24, 33X RB2B, BS 360C, BS 360B, IARM Cu360-18, IMN WD-3, BS 360D, 31X B19S, 31X 7835-2L, 31X CZ132A, IMN WD-7, HRT CU2015, 31X CZ122A, BAM M394, BAM M394a, IMN WD-4, 31X 7835-3K, IMN WD-5, 31X 7835-6D, 31X CZ114A, BS 857B-1, BS 857B-2, BS 857B-3, BS 857B-4, 31X CZ115A, 31X 7835-4K, IMN WD-6, 31X CZ112A.

CRM LEADED BRASS SET

40 mm Ø x 30 mm

Number	Al	Bi	Cu	Fe	Mn	Ni	P	Pb	Sb	Si	Sn	Zn	
IMN WG1	0.096	0.0013	60.99	0.0084	0.16	0.20	0.029	0.71	(0.062)	(0.0046)	0.29	Rem	available individually
IMN WG2	(0.00095)	0.016	56.99	0.42	(0.0024)	0.0051	.	2.66	(0.0024)	(0.021)	(0.0025)	Rem	available individually
IMN WG3	0.041	0.0057	58.20	0.31	0.037	0.029	0.013	2.29	0.018	(0.014)	0.091	Rem	available in set only
IMN WG4	0.073	0.014	60.05	0.10	0.12	0.16	0.020	1.41	(0.042)	(0.016)	0.21	Rem	# 4 sold out
IMN WG5	0.058	0.0094	59.32	0.18	0.074	0.078	0.016	1.66	0.034	(0.022)	0.14	Rem	available in set only
IMN WG6	0.020	0.023	60.67	0.18	0.21	0.29	0.044	3.70	(0.0078)	(0.019)	0.40	Rem	available individually

CRM MANGANESE BRASS

chill cast analysis listed in mass % except * which is mg/kg 31X: ~40 mm Ø x ~15-18 mm CTIF: 2 Discs 60 mm Ø x 5 mm

Number	Mn	Zn	Cu	Al	Fe	Ni	Pb	Si	Sn	As	Co	P	Sb	Ag*	Bi*	Cd*	Cr*
31X MNB12C *	16.1	21.2	58.3	0.70	0.29	0.696	1.97	0.046	0.171	0.0100	0.012	0.078	0.0101	21	101	22	26
31X B13G	2.84	36.67	60.03	0.0148	0.182	0.212	0.0188	0.032	0.0127	0.0120	.	.	0.0056	.	116	.	.
31X MNB3F	2.11	25.57	66.41	1.41	1.25	0.377	0.509	1.642	0.423	0.044	0.036	0.056	0.044	99	.	97	360
31X B12G	1.720	36.66	60.51	0.081	0.430	0.491	0.0244	0.0207	0.0229	0.0181	.	.	0.0194	.	198	.	.
31X MNB6C	0.871	28.51	70.01	0.0148	0.0697	0.261	0.016	0.0196	0.0308	0.0107	0.0107	0.0226	0.0128	509	.	.	.

* 31X MNB12Ca lso contains C:0.009

CRM MANGANESE BRASS DISC AND ROD SETS

Number	Al	As	Bi	Cu	Fe	Mn	Ni	P	Pb	Sb	Si	Sn	Zn	availability	Units
IMN MA1	1.51	0.085	0.0020	55.50	0.073	3.37	0.39	0.10	0.16	0.0061	0.071	1.04	Rem	set only	10 mm Ø x 100 mm
IMN MA2	3.35	0.0081	0.0029	60.88	1.27	1.30	0.011	0.015	0.020	0.0019	0.042	0.41	Rem	set only	10 mm Ø x 100 mm
IMN MA3	.	0.029	0.028	57.04	0.55	0.78	0.13	0.040	0.049	0.14	0.50	0.74	Rem	set only	10 mm Ø x 100 mm
IMN MA4	0.33	.	.	57.40	0.20	2.75	0.69	0.15	.	0.20	0.27	0.015	Rem	set only	10 mm Ø x 100 mm
IMN MA5	1.04	0.11	0.020	58.51	0.70	1.97	1.01	0.062	1.20	0.072	0.65	0.046	Rem	set only	10 mm Ø x 100 mm
IMN MA6	2.15	0.013	0.0072	60.45	1.72	0.50	0.056	0.019	0.60	0.016	0.013	0.13	Rem	set only	10 mm Ø x 100 mm
IMN WF1	.	.	0.00059	56.47	0.097	2.16	0.010	(0.0012)	0.010	0.00058	.	0.012	Rem	OK individually	44 mm Ø x 30 mm
IMN WF2	.	.	0.00091	57.66	0.21	1.79	0.040	(0.0032)	0.040	0.0018	.	0.045	Rem	OK individually	44 mm Ø x 30 mm
IMN WF3	.	.	0.0015	58.66	0.29	1.36	0.10	0.0075	0.070	0.0036	.	0.072	Rem	OK individually	44 mm Ø x 30 mm
IMN WF4	.	.	0.0021	60.50	0.42	0.57	0.15	0.0095	0.10	0.0045	.	0.11	Rem	OK individually	44 mm Ø x 30 mm
IMN WF5	.	.	0.0030	58.77	0.68	0.52	0.18	0.014	0.14	0.0061	.	0.16	Rem	set only	44 mm Ø x 30 mm
IMN WF6	.	.	0.00095	59.78	0.05	0.98	0.074	0.0020	0.026	.	.	0.028	Rem	OK individually	44 mm Ø x 30 mm

NAVAL BRASS

= class, where 1 = CRM and 2 = RM 31X NB: 42 mm Ø x ~15 mm BS: 38 mm Ø x see below CURM: 50 mm Ø x 10-12 mm IARM: 38 mm Ø x 3 or 19 mm

#	Number	Sn	Pb	Zn	Cu	Al	As	Bi	Fe	Mn	Ni	P	S	Sb	Si	Ag	B	Co
2	CURM 42.25	2.72	0.0023	39.20	57.78	0.021	0.118	<0.001	0.003	0.169	<0.001	0.050	0.005	<0.001	<0.001	.	.	.
2	C42.25	2.2	<0.01	rem	58.5	0.02	0.10	<0.002	<0.005	0.13	<0.005	0.06	0.001	<0.005	<0.002	.	.	.
2	CURM 42.23	1.63	0.575	22.13	74.36	0.008	0.168	0.034	0.354	0.019	0.168	0.128	0.045	0.356	0.015	.	.	.
1	31X NB3J	1.38	0.127	24.46	72.86	0.130	0.0559	0.0786	0.071	0.124	0.0599	0.203	(0.004)	0.197	0.127	0.0464	.	.
1	IARM Cu485-18	0.759	1.76	36.5	60.8	(0.002)	(0.055)	.	0.062	0.0013	0.013	.	.	(0.0018)	(0.003)	C: (0.002)	Cd: 0.0005	.
1	IARM Cu464-21	0.751	0.066	38.5	60.7	0.0006	0.0011	0.0010	0.096	0.0115	0.0084	0.0012	.	0.0016	.	0.0040	.	.
1	IARM 76D	0.73	1.69	36.8	60.7	(0.002)	(0.004)	0.0011	0.013	0.0006	(0.003)	0.0018	0.0012	0.0040	0.0037	0.0014	.	0.0010
1	BS 485A	0.725	1.39	36.2	61.5	0.0022	(0.0003)	.	0.010	(0.001)	0.0017	(0.002)	(0.0005)	(0.006)	(0.005)	C: (0.002)	O: (0.0009)	.
1	IARM Cu486-18	0.692	1.31	36.5	61.2	(0.0030)	(0.025)	(0.0004)	0.036	(0.0003)	0.032	(0.004)	(0.0030)	(0.0050)	(0.002)	(0.004)	.	(0.0006)
1	BS 464B	0.69	0.054	38.7	60.5	(0.004)	0.0005	.	0.050	(0.09)	0.0092	(0.002)	0.0005	(0.001)	0.011	O: 0.0013	~7 or 19mm	.
2	BS 482A	0.65	0.50	38.8	60.0	(0.003)	<0.002	0.020	<0.002	(0.007)	<0.003	<0.002	0.0012	(0.002)	.	.	.	~7 or 19mm
2	BS 464A	0.62	0.056	38.73	60.6	(0.001)	<0.002	0.013	0.0002	0.004	0.012	0.001	(0.001)	<0.01	.	.	.	~7 or 19mm
2	CURM 42.21	0.60	0.259	31.61	66.78	0.003	<0.003	0.013	0.119	<0.001	0.120	0.087	0.034	0.25	0.15	.	.	.
1	IARM 75B	0.59	0.63	38.0	60.63	(0.005)	(0.004)	(0.001)	0.06	(0.003)	0.02	0.003	(0.001)	(0.004)	(0.003)	.	.	.
2	C42.21	0.54	0.23	rem	66.1	0.005	<0.005	0.012	0.06	<0.005	0.096	0.081	0.007	0.19	0.081	.	.	.
1	31X NB 1H	0.535	0.504	29.73	68.35	(0.0004)	0.161	0.0065	0.037	0.051	0.520	0.0223	0.0024	0.0057	0.004	.	.	(0.0006)

BS 464B and BS 485A are 17025, 17034

CRM NAVAL BRASS SET

40 mm Ø x 25 mm

Number	Al	Bi	Cu	Fe	Mn	Ni	P	Pb	Sb	Si	Sn	Zn	availability
IMN WK1	0.11	0.014	59.97	0.28	0.13	0.28	0.030	0.17	0.024	0.30	0.11	Rem	ok individually
IMN WK2	0.080	0.011	60.54	0.16	0.088	0.21	0.017	0.33	0.018	0.29	1.34	Rem	ok individually
IMN WK3	0.045	0.0088	62.09	0.066	0.046	0.13	0.017	0.11	0.012	0.16	0.49	Rem	set only
IMN WK4	0.013	0.0052	63.28	0.085	0.020	0.070	0.010	0.050	0.0056	0.082	1.04	Rem	set only
IMN WK5	0.0042	0.0011	64.92	0.0092	0.0056	0.0055	0.0056	0.0062	0.0027	0.0064	0.47	Rem	ok individually

CRM NICKEL AND PHOSPHOR BRASS

analysis listed in mass %

Number	Ni	P	Cu	Zn	Al	Cd	Cr	Fe	Mn	Pb	Sn	Units
31X B29A	4.11	3.33	67.08	24.75	0.219	0.0144	0.062	0.144	0.0625	0.146	0.0328	40 mm Ø x ~15 mm
BAM 387	5.020	.	75.18	19.57	.	.	.	0.0617	0.0796	0.00108	0.00301	40 mm Ø x 30 mm

CRM NICKEL BRASS SETS

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

IMN WH, WM: 40 mm Ø x 25 mm

IMN WP: 40 mm Ø x 30 mm

Number	Ni	Zn	Cu	Al	As	Bi	C*	Cd	Co	Fe	Mg	Mn	P	Pb	S	Sb	Si	Sn
available individually																		
IMN WP1	5.45	Rem	67.15	0.020	0.0012	0.00080	.	0.0019	.	0.020	.	0.0069	0.020	0.52	.	0.0010	(0.01)	0.0042
IMN WP2	7.79	Rem	65.08	0.0090	0.0049	0.0052	.	0.0052	.	0.12	.	0.040	0.0067	0.82	.	0.0052	(0.009)	0.11
IMN WP3	10.24	Rem	63.05	0.0020	0.011	0.012	.	0.011	.	0.20	.	0.15	0.0079	1.52	.	0.012	(0.03)	0.18
IMN WP4	12.38	Rem	60.91	0.039	0.015	0.016	.	0.016	.	0.31	.	0.35	0.011	(2)	.	0.015	(0.04)	0.26
IMN WP5	15.63	Rem	58.70	0.049	0.021	0.021	.	0.026	.	0.026	.	0.49	0.0027	(1.8)	.	0.028	(0.03)	0.33
IMN WP6	4.27	Rem	69.37	.	.	.	.	.	.	.	.	.	.	2.41	.	.	.	.
IMN WM1	5.03	25.35	69.06	0.083	0.00026	0.011	44	0.0046	0.021	0.011	0.0054	0.38	0.0018	0.018	0.017	0.00098	0.0026	0.0036
IMN WM2	6.66	24.18	68.41	0.050	0.0030	0.014	52	0.022	0.017	0.022	0.019	0.53	0.023	0.011	0.0058	0.013	0.0067	0.011
IMN WM3	6.09	23.57	69.85	0.033	0.0053	0.0055	58	0.0024	0.011	0.077	0.0042	0.19	0.0052	0.0073	0.0073	0.0043	0.037	0.098
IMN WM4	5.36	23.19	71.10	0.0080	0.0072	0.0029	72	0.0021	0.0099	0.13	0.0027	0.011	0.0057	0.0044	0.0058	0.0059	0.071	0.075
IMN WM5	4.68	25.90	68.99	0.0012	0.0089	0.0007	90	0.00077	0.0021	0.22	0.00056	0.0024	0.016	0.0020	0.0030	0.0068	0.094	0.035
available in SET ONLY																		
IMN WH1	5.70	Rem	68.16	.	.	.	(46)	.	0.0061	0.0052	.	0.56	0.0029	.	(0.0055)	.	0.010	.
IMN WH2	6.34	Rem	69.14	.	.	.	(58)	.	0.017	0.038	.	0.36	0.0072	.	(0.0071)	.	0.038	.
IMN WH3	3.44	Rem	70.18	.	.	.	(70)	.	0.031	0.11	.	0.25	0.013	.	(0.011)	.	0.072	.
IMN WH4	4.14	Rem	71.15	.	.	.	(75)	.	0.048	0.13	.	0.11	0.015	.	(0.017)	.	0.12	.
IMN WH5	4.89	Rem	72.28	.	.	.	(87)	.	0.028	0.22	.	0.011	0.017	.	(0.021)	.	0.17	.

SILICON BRASS

= class, where 1 = CRM and 2 = RM

Number	Si	Zn	Cu	Al	Fe	Mn	Ni	P	Pb	Sb	Sn
2 CTIF LS2	4.91	11.60	79.60	0.156	1.022	0.220	1.110	0.064	0.886	0.0103	0.338
1 ERM-EB393a	3.35	(20.8)	75.8	0.00021	0.0143	0.00185	0.00297	0.0454	0.0104	(0.000093)	0.00390
2 CTIF LS3	3.3	19	76	0.43	0.10	0.15	0.11	0.011	0.58	0.107	0.15
1 31X WSB6F	3.13	0.0506	95.40	(0.0013)	0.158	0.924	0.0509	0.0179	0.0310	0.0406	0.0142
1 IARM Cu693-21	3.1	21.9	74.8	0.00043	0.028	0.041	0.0019	0.099	0.030	.	0.022
1 IARM 313A	3.09	21.3	75.4	(0.001)	0.011	(0.001)	(0.002)	0.09	0.042	0.014	0.006
2 HRT CU2021	2.9	10.0	86.6	0.0008	0.019	0.044	0.002	0.081	0.006	0.001	0.006

Number	Ag	As	B	C	Cd	Co	Cr	S	Zr	Units
CTIF LS2	.	.	.	.	.	.	.	.	.	60 mm Ø x 5 mm
ERM-EB393a	.	0.000134	Bi:(0.000019)	.	0.000061	.	0.000156	Se:(0.00047)	.	40 mm Ø x 30 mm
CTIF LS3	.	.	.	.	.	.	.	.	.	60 mm Ø x 5 mm
31X WSB6F	0.0131	0.0110	0.0054	.	0.0039	0.0095	.	.	.	~40 mm Ø x ~15 mm
IARM Cu693-21	.	0.0010	0.0008	(0.002)	(0.0003)	(0.004)	0.0006	.	.	38 mm Ø x 3 or 19 mm
IARM 313A	0.0017	(0.0006)	0.0008	Bi:0.0006	0.0005	.	0.0006	0.0016	(0.0004)	31 mm Ø x 2 mm
HRT CU2021	.	.	.	.	.	.	.	0.001	.	42 mm Ø x 20 mm

CRM HIGH TENSILE BRASS

Number	Cu	Zn	Al	Fe	Mn	Si	As	C	Ni	P	Pb	S	Sb	Sn	Units
31X HT31B	67.00	17.06	6.82	3.01	5.69	0.0443	0.0005	0.0057	0.226	0.0030	0.0139	0.0007	E:0.0014	0.079	~40 mm Ø x ~15 mm

RM BRONZE MUSHROOMS

chill cast typical analysis 60 mm Ø x 5 mm

Number	Sn	Zn	Cu	Al	As	Fe	Mn	Ni	P	Pb	S	Sb	Si
CTIF B 1	15.15	0.92	82.90	0.072	.	0.088	.	0.063	0.037	0.202	0.030	0.444	0.055
CTIF B 2	13.55	0.11	85.90	(0.002)	.	0.041	.	(0.003)	0.17	0.0206	0.048	(<0.002)	0.17
CTIF B 3	12.8	2.2	80.2	0.1	.	0.2	0.20	1.5	0.45	1.6	0.04	0.2	0.07
CTIF B 4	11.10	1.34	83.75	.	.	0.021	.	0.57	0.52	2.53	0.019	0.10	0.015
CTIF B 14	10.75	0.15	87.00	<0.01	0.04	0.11	0.02	0.30	0.64	0.50	0.02	0.08	0.075
CTIF B 13	10.05	1.09	86.35	0.016	0.065	0.250	0.046	0.50	0.210	0.99	0.070	0.243	0.085
CTIF B 5	9.90	0.42	85.95	0.039	.	0.18	0.082	2.28	0.041	0.48	0.067	0.47	0.049
CTIF B 30	9.80	1.05	77.45	0.063	.	0.115	0.150	0.97	0.063	10.0	0.048	0.22	0.066
CTIF B 12	9.57	0.61	85.65	0.120	0.111	0.162	0.235	2.63	0.525	0.201	0.013	0.117	0.050
CTIF B 11	8.04	2.10	84.75	.	.	0.170	.	2.0	0.057	1.93	0.09	0.70	0.14
CTIF B 31	7.65	0.79	78.65	(0.031)	.	(0.015)	.	0.489	.	11.79	0.028	0.475	(0.047)
CTIF B 23	7.18	1.46	83.45	0.020	.	(0.040)	.	0.086	0.070	7.20	0.019	0.384	0.025
CTIF B 10	6.95	2.75	83.65	0.205	0.0075	0.165	(0.0045)	1.01	0.014	4.07	0.050	1.14	.
CTIF B 20	6.35	3.77	83.35	0.040	.	0.165	.	0.51	0.072	5.10	0.115	0.520	0.055
CTIF B 32	5.92	1.17	74.80	0.075	0.0056	0.11	.	1.49	0.039	16.10	0.027	0.13	0.070
CTIF B 21	5.13	6.17	83.05	0.13	.	0.285	.	1.21	(0.004)	3.79	0.047	0.18	.
CTIF B 22	3.5	4.0	83.0	.	.	<0.10	.	2.5	.	6.0	0.03	0.05	<0.1
CTIF UN 3S	0.215	1.62	92.65	0.11	.	0.30	0.073	3.45	.	0.20	.	.	1.24
Number	Sn	Zn	Cu	Al	As	Fe	Mn	Ni	P	Pb	S	Sb	Si

BRONZE

Number	Cu	Fe	Ni	P	Pb	Sn	Zn	method	Units
32X CSN1A	.	0.0020	(0.0001)	0.0007	.	0.306	0.0039	wrought	~20 mm Ø x ~22 mm
SRM 1115	87.9	0.13	0.074	0.005	0.013	0.10	11.7	wrought	31 mm Ø x 19 mm
SRM C1115	87.9	0.13	0.074	0.005	0.013	0.10	11.7	cast	31 mm x 31 mm x 19 mm
SRM 1116	90.3	0.046	0.048	0.008	0.042	0.04	9.4	wrought	31 mm Ø x 19 mm
SRM 1117	93.0	0.014	0.020	0.002	0.069	0.02	6.8	wrought	31 mm Ø x 19 mm
SRM C1117	93.0	0.014	0.020	0.002	0.069	0.02	6.8	cast	31 mm x 31 mm x 19 mm

CRM ALUMINUM BRONZE SETS

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

40 mm Ø x ~25-30 mm

Table with 19 columns: Number, Al, As, Bi, Cd, Co, Cr*, Fe, Mg*, Mn, Ni, P, Pb, S, Sb, Si, Sn, Zn, Singly?. Contains multiple rows of material specifications.

ALUMINUM BRONZE - LOW NICKEL

= class, where 1 = CRM and 2 = RM

Table with 15 columns: #, Number, Al, Cu, As, Cr, Fe, Mg, Mn, Ni, P, Pb, Si, Sn, Zn. Contains multiple rows of material specifications for low nickel aluminum bronze.

Need a larger size? Most BS items are available in any height.

Table with 11 columns: Number, Ag, Be, C, Co, N, O, S, Sb, Zr, Units. Contains multiple rows of material specifications, including dimensions like 38 mm Ø x 3 or 19 mm.

ALUMINUM BRONZE - HIGH NICKEL

= class, where 1 = CRM and 2 = RM

#	Number	Al	Cu	As	Cr	Fe	Mg	Mn	Ni	P	Pb	Si	Sn	Zn
2	BS 955C	10.68	80.6	(<0.002)	.	4.04	.	0.06	4.31	0.012	0.003	0.025	0.003	0.15
1	IARM Cu954-21	10.55	85.1	.	0.022	3.66	0.0013	0.393	0.105	0.0031	0.012	0.029	0.0053	0.029
2	BS 954C	10.21	83.9	(0.006)	.	3.9	.	0.29	1.38	0.011	0.050	0.07	0.08	0.09
2	BS 954B	10.20	83.9	(0.005)	.	3.90	.	0.27	1.38	0.012	0.047	0.07	0.07	0.10
2	HRT CU2001	10.05	79.09	.	.	4.79	.	0.36	4.94	0.011	0.015	0.08	0.018	0.17
2	C52.51	10.0	Rem	.	<0.01	4.3	<0.01	<0.01	5.1	.	<0.01	<0.01	<0.01	0.02
2	HRT CU2009	9.93	78.88	.	.	3.73	.	0.29	6.22	0.010	0.037	0.19	0.020	0.54
1	IARM 334B	9.91	80.8	(0.003)	(0.004)	3.7	(0.001)	0.60	4.70	0.005	0.006	0.075	0.019	0.122
1	BS 630C	9.90	80.7	0.0007	0.0030	3.82	0.0011	0.325	4.82	0.0043	0.0093	0.064	0.0152	0.234
1	BS 630B	9.78	80.8	0.0007	0.0017	3.90	0.0009	0.281	4.88	0.0028	0.0056	0.0166	0.0289	0.254
1	IARM 334A	9.76	80.7	(0.004)	(0.01)	3.82	(0.001)	0.69	4.77	(0.005)	0.010	0.073	0.025	0.110
2	IARM 80D	9.67	(81.7)	(0.009)	(0.005)	2.99	(0.003)	0.346	5.01	(0.005)	(0.005)	0.025	0.093	(0.007)
1	VS BR3	9.6	.	.	.	4.00	.	0.227	3.85	(0.003)	0.007	0.071	0.005	0.009
2	BS CC954	9.28	84.0	0.003	.	3.61	.	0.353	1.12	0.013	0.13	0.092	0.061	1.30
2	C52.56	8.9	Rem	.	0.14	4.6	0.09	0.74	5.6	.	0.17	0.15	0.11	0.28
1	32X ALB 12A	8.29	82.90	.	.	1.094	0.0013	0.958	6.33	0.0101	0.0018	0.0202	0.310	0.0625
2	CURM 52.54	7.85	81.59	.	<0.005	3.31	<0.005	1.20	5.40	.	0.086	0.022	0.135	0.39
1	32X ALB 13A	7.09	84.96	.	.	1.171	.	5.39	1.381	0.009	(0.0009)	0.086	0.0072	0.0194
1	32X ALB 8E	6.38	77.17	0.145	0.36	5.54	0.015	1.562	6.68	0.171	0.071	0.603	0.312	0.352
1	32X ALB 8F	6.21	77.04	0.189	0.088	5.37	0.194	1.57	6.11	0.261	0.049	0.513	0.435	1.395

Number	Ag	Be	Bi	C	Co	S	Sb	Se	Units
BS 955C	0.014	.	.	.	.	.	(<0.002)	.	38 mm Ø x ~7 or 19+ mm
IARM Cu954-21	0.0012	.	(0.0009)	.	(0.002)	(0.0019)	(0.0019)	.	38 mm Ø x 3 or 19 mm
BS 954C	.	.	.	(0.004)	.	(<0.0005)	<0.003	.	38 mm Ø x ~7 or 19+ mm
BS 954B	.	.	.	(0.005)	.	(<0.0005)	(0.001)	.	38 mm Ø x ~7 or 19+ mm
HRT CU2001	.	.	.	.	.	0.003	.	.	40 mm Ø x 20 mm
C52.51	.	.	.	.	.	.	.	.	50 mm Ø x 10 - 12 mm
HRT CU2009	.	.	.	.	.	.	.	.	40 mm Ø x 20 mm
IARM 334B	0.0013	(0.001)	(0.001)	0.005	(0.003)	0.0008	(0.004)	(0.004)	31 mm Ø x 2 or 18 mm
BS 630C	.	(<0.0005)	.	0.0060	0.0019	(<0.0005)	0.0003	last	38 mm Ø x 19 mm 17025
BS 630B	.	(<0.0005)	.	0.0067	0.0017	0.0013	(<0.0005)	.	38 mm Ø x ~7 or 19 mm+ 17025
IARM 334A	(0.001)	(0.001)	(0.001)	0.0058	(0.003)	0.0007	0.004	.	31 mm Ø x 2 or 18 mm
IARM 80D	(0.04)	<0.002	(0.004)	(0.004)	0.022	(0.003)	<0.02	<0.03	31 mm Ø x 2 or 18 mm
VS BR3	.	.	.	.	.	.	.	.	38 mm Ø x 18 mm
BS CC954	.	.	.	(0.007)	.	(0.002)	0.004	.	32 mm Ø x 17 mm
C52.56	.	.	.	.	.	.	.	.	50 mm Ø x 10 - 12 mm
32X ALB 12A	0.044	.	.	.	0.0056	.	.	(0.0007)	~41 mm Ø x ~15 mm
CURM 52.54	.	.	.	.	.	.	.	.	50 mm Ø x 10 - 12 mm
32X ALB 13A	.	.	.	.	0.0011	.	.	(0.0007)	~35 mm Ø x ~15 mm
32X ALB 8E	0.0099	.	.	.	0.554	.	0.024	.	~40 mm Ø x ~15 mm
32X ALB 8F	0.0100	.	.	0.0204	0.425	.	0.0250	.	~40 mm Ø x ~15 mm Nb: (0.002) Te: (0.003)

**Need a larger size?
Most BS items are
available in any height.**

RM ALUMINUM BRONZE MUSHROOMS

chill cast		typical analysis											60 mm Ø x 5 mm	
Number		Al	Cu	Fe	Mn	Ni	Pb	Si	Sn	Zn	Bi	Cd	Cr	Mg
CTIF CA 36		12.60	77.25	2.93	0.131	6.33	0.0154	0.113	0.201	0.244	0.058	.	0.041	0.130
CTIF 2158-W		11.95	85.00	2.53	0.26	0.10	<0.005	0.015	<0.01	<0.01	.	.	.	last
CTIF 4065-P		11.85	81.20	3.40	0.075	3.18	0.03	0.034	0.18	0.03	.	.	.	.
CTIF CA 35		11.4	75.6	6.1	1.6	3.80	0.10	0.25	0.30	0.55	.	.	.	.
CTIF CA 13		11.20	82.45	3.82	1.22	0.50	0.0230	0.11	(0.01)	0.65	.	.	.	.
CTIF CA 3		10.9	86.5	0.80	0.06	0.80	0.15	0.08	0.20	0.30	.	.	.	.
CTIF CA 21		10.82	81.9	3.45	0.30	3.09	0.05	0.07	0.07	0.100	.	0.0095	.	.
CTIF CA11		10.54	84.45	1.27	0.779	1.95	0.109	0.254	0.258	0.211	.	.	.	0.125
CTIF CA 22		10.45	80.50	2.51	0.745	4.54	0.0243	0.32	0.30	0.605	.	.	.	.
CTIF 3011-G		10.35	84.80	1.98	0.165	2.00	0.10	0.16	0.125	0.25	.	.	.	.
CTIF CA 27		10.25	81.1	2.81	1.195	3.88	0.11	0.127	0.054	0.428	.	0.012	.	.
CTIF CA 10		10.15	80.65	4.55	0.333	3.39	0.16	0.46	0.16	0.067	.	.	.	.
CTIF 3299-J		10.10	87.60	0.38	1.12	0.21	0.110	0.136	0.106	0.19	.	.	.	.
CTIF 3297-Y		10.00	87.45	1.88	0.03	.	0.11	0.15	0.10	0.27	.	.	.	.
CTIF CA37		9.84	76.79	6.85	0.752	4.98	0.0503	0.040	0.147	0.364	0.0118	.	0.085	0.077
CTIF 4149-G		9.84	84.95	2.00	0.21	1.96	0.15	0.18	0.34	0.37	.	.	.	.
CTIF 2152-S		9.78	85.05	3.99	0.42	0.68	<0.005	0.015	.	<0.01	.	.	.	.
CTIF 2151-R		9.43	84.75	4.48	0.73	0.56	<0.005	0.015	<0.01	<0.01	.	.	.	.
CTIF 3296-L		9.40	88.55	0.07	0.37	0.41	0.30	0.20	0.06	0.62	.	.	.	.
CTIF CA 31		9.15	76.5	3.18	3.27	7.51	0.020	0.064	0.063	0.145	.	.	.	0.02
CTIF CA 26		9.10	81.25	4.36	0.188	4.87	0.058	0.035	0.005	0.038	.	0.034	.	.
CTIF 3300-M		8.73	89.5	0.45	0.165	0.205	0.205	0.415	0.205	0.085	.	.	.	.
CTIF 3301-Z		8.10	87.30	4.00	0.26	0.125	0.032	0.057	0.028	0.06	.	.	.	.
CTIF 2794-H		8.0	90.3	0.82	<0.01	0.69	<0.01	0.048	0.105	<0.01	.	.	.	.
CTIF CA 20		8.00	87.15	0.79	1.85	1.18	0.18	0.17	0.19	0.41	.	0.05	.	.
CTIF CA 12		8.0	84.1	2.77	3.09	1.385	0.047	0.058	0.036	0.45	.	.	.	.
CTIF CA 25		7.97	79.12	6.10	0.51	5.74	0.03	0.084	0.177	0.252	.	.	.	.
CTIF CA 30		7.55	81.6	5.2	2.05	3.10	0.142	0.15	0.099	0.066	.	.	.	.
CTIF 3018-F		7.25	81.90	4.45	1.57	4.50	0.02	0.085	0.06	0.06	.	.	.	.
CTIF 3610-Q		7.10	82.32	3.98	0.045	5.40	0.23	0.065	0.25	0.51	.	0.090	.	.
Number		Al	Cu	Fe	Mn	Ni	Pb	Si	Sn	Zn	Bi	Cd	Cr	Mg

CRM BISMUTH BRONZE

Number	Bi	Cu	Ni	P	Pb	Sn	Zn	Al	Fe	O	S	Sb	Se	Units
IARM CuMB1-18	4.51	88.98	0.58	0.049	0.015	5.58	0.47	(0.0012)	(0.0016)	(0.003)	(0.0020)	(0.003)	(0.0025)	31 mm Ø x 2 mm or 18 mm

MANGANESE BRONZE

= class, 1=CRM and 2=RM

BS 675B, 863B, 675A: 38 Ø x ~7 to 19+ mm

BS 675: 38 Ø x 12 mm

IARM: 31 Ø x 2 or 18 mm

#	Number	Mn	Al	Fe	Sn	Zn	Cu	As	C	Co	Cr	Ni	P	Pb	S	Sb	Si
1	BS 863B	2.97	5.25	2.84	0.033	26.1	[62.4]	0.0004	0.0028	0.0009	0.0042	0.081	0.0010	0.0205	0.0007	0.0012	0.0103
1	IARM 88C	2.99	5.79	2.98	0.147	22.86	64.5	(0.007)	0.005	0.0010	0.008	0.276	0.020	0.133	0.0010	(0.003)	0.091
2	BS 675A	0.32	<0.002	1.12	0.8	39.1	58.5	0.003	(0.0007)	.	.	0.019	0.010	0.074	(0.0005)	0.0011	(0.005)
1	BS 675B	0.175	(<0.005)	1.10	0.92	39.3	58.7	0.0009	(<0.001)	(0.0002)	(0.0002)	0.0071	0.0020	0.071	0.0002	0.0011	(<0.005)
1	IARM 83B	0.13	0.002	0.97	0.85	39.3	58.7	.	0.003	.	.	0.010	0.004	0.017	(0.001)	(0.004)	(0.003)
2	BS 675	0.11	<0.01	0.73	0.92	39.7	Rem.	<0.005	(0.0004)	.	last	<0.01	<0.01	<0.01	(0.0013)	<0.01	<0.02

BS 675B and 863B are 17025**CRM NICKEL BRONZE SET**

available in SET/5 or individually

analysis listed in mass %

40 mm Ø x ~30 mm

Number	Al	Bi	Cu	Fe	Ni	P	Pb	S	Sb	Se	Si	Sn	Zn
IMN BN5	0.0245	0.0298	rem	0.00731	2.69	0.0634	0.00612	0.0018	0.0314	0.00636	(0.00211)	11.82	0.0560
IMN BN1	0.00286	0.118	rem	0.495	0.226	0.123	0.0239	0.113	0.117	0.00335	(0.00839)	6.47	0.135
IMN BN2	0.00371	0.0707	rem	0.589	1.64	0.0769	0.00514	0.213	0.0656	0.0104	.	6.21	0.369
IMN BN3	0.00126	0.00098	rem	0.153	1.04	0.00038	0.0054	(0.0017)	0.0088	.	.	9.29	0.0625
IMN BN4	0.00055	0.00595	rem	0.0216	0.635	0.0066	0.0145	0.112	0.0055	0.0134	(0.00064)	9.81	0.00771

Need a larger size?
Most BS items are
available in any height.

LEADED, TIN, AND LEADED TIN BRONZE CHART 1 of 2

= class, where 1 = CRM and 2 = RM

#	Number	Sn	Pb	Zn	Cu	Al	Fe	Mn	Ni	P	S	Sb	Si
1	32X SN5C	16.7	0.27	0.815	77.2	0.89	0.95	1.19	0.382	0.017	0.0015	0.69	0.016
2	CTIF B1	15.15	0.202	0.92	82.90	0.072	0.088	.	0.063	0.037	0.030	0.444	0.055
1	32X SN7B	12.4	2.31	1.14	81.21	0.0254	0.036	.	0.276	0.0051	0.027	0.235	.
1	IARM 310A	10.56	0.064	0.10	89.2	0.0009	0.006	(0.001)	0.043	0.094	0.0021	(0.002)	(0.001)
2	CURM 50.02	10.34	10.67	0.006	78.84	.	.	.	.	0.046	.	.	.
1	32X 52480A	10.33	0.329	0.397	88.54	.	0.020	.	0.369	0.0103	0.0071	0.0182	(0.002)
2	BS 905A-2	10.3	0.032	2.3	[87.3]	(<0.005)	0.014	(<0.005)	0.018	0.056	(0.004)	0.004	(<0.005)
2	BS 905A-3	10.3	0.033	2.3	[87.3]	(<0.005)	0.013	(<0.005)	0.018	0.052	(0.004)	0.004	(<0.005)
2	BS 905A-4	10.3	0.033	2.2	[87.3]	(<0.005)	0.012	(<0.005)	0.018	0.049	(0.004)	0.004	(<0.005)
2	BS 905A-1	10.25	0.030	2.27	87.3	(<0.003)	0.015	(<0.003)	0.018	0.055	.	0.004	(<0.004)
1	32X Sn7-22	10.0	1.28	0.025	87.4	.	.	.	1.22	0.030	0.003	0.0045	.
1	BS 937C	9.99	9.15	0.196	80.0	(0.0008)	0.0033	(0.0007)	0.26	0.0009	0.025	0.55	(0.002)
1	32X 93700A	9.95	8.38	0.78	80.43	.	0.0011	.	0.307	(0.0015)	0.0017	0.0051	.
1	NCS HS45742	9.79	1.43	2.88	Rem	0.037	0.191	.	0.153	0.56	.	0.288	0.010
1	IARM 92C	9.65	9.42	0.146	80.35	0.0013	(0.008)	(0.0016)	0.170	0.073	0.026	0.078	(0.0019)
1	32X LB12E	9.63	8.64	0.459	79.76	0.0337	0.029	.	0.354	0.240	0.053	0.484	0.0099
2	HRT CU2017	9.24	8.91	0.37	80.11	.	0.011	.	1.25	0.007	0.026	0.14	.
1	BS 929	9.07	1.98	0.0055	85.3	(<0.00005)	0.0030	(<0.00005)	3.37	0.119	0.0026	0.0146	(<0.001)
1	NCS HS45743	9.06	4.20	1.39	Rem	0.028	0.100	.	0.056	0.38	.	0.206	0.020
2	CURM 50.01	9.01	11.13	0.91	75.38	<0.0005	0.074	<0.001	1.93	0.069	0.188	0.50	<0.001

#	Number	Sn	Pb	Zn	Cu	Al	Fe	Mn	Ni	P	S	Sb	Si
	Number	Ag	As	Bi	C	Cd	Co	Cr	Mg	Se	Te	Units	
	32X SN5C	0.082	0.053	0.097	Au:0.011	0.121	0.110	0.011	.	(0.0009)	(0.0013)	~40 mm Ø x ~15 mm	
	CTIF B1	.	.	.	.	.	.	.	.	.	.	60 mm Ø x 5 mm	
	32X SN7B	0.328	1.13	0.198	.	0.020	0.339	.	.	0.066	0.0204	~40 mm Ø x ~15 mm	
	IARM 310A	0.0020	(0.002)	(0.001)	(0.005)	(0.001)	0.0011	(0.001)	.	(0.001)	.	31 mm Ø x 2 or 18 mm	
	CURM 50.02	.	.	.	.	.	.	.	.	.	.	50 mm Ø x 10-12 mm	
	32X 52480A	0.0131	.	0.0013	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm	
	BS 905A-2	0.002	0.002	.	(0.002)	.	.	.	.	.	.	38 mm Ø x 12 mm	
	BS 905A-3	(0.002)	0.002	.	(0.001)	.	.	.	.	.	.	38 mm Ø x 12 mm	
	BS 905A-4	(0.002)	0.002	.	(0.002)	.	.	.	.	.	.	38 mm Ø x 12 mm	
	BS 905A-1	(0.002)	(0.001)	.	.	.	.	.	.	.	.	38 mm Ø x 12 mm	
	32X Sn7-22	0.008	.	0.0028	.	.	.	.	.	.	.	38 mm Ø x 19 mm	
	BS 937C	(0.015)	0.0112	(0.018)	(0.0015)	(0.0002)	0.0006	(0.00004)	0.0060	(0.0008)	(0.0005)	38 mm Ø x 19+ mm 17025	
	32X 93700A	.	.	.	.	.	0.0004	.	.	.	.	~42 mm Ø x ~15 mm	
	NCS HS45742	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 30 mm	
	IARM 92C	(0.05)	(0.005)	(0.011)	(0.002)	.	(0.0007)	(0.0007)	.	(0.001)	.	31 mm Ø x 2 or 18 mm	
	32X LB12E	0.0450	0.112	0.0338	.	.	0.061	.	.	.	0.0215	~40 mm Ø x ~15 mm	
	HRT CU2017	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 20 mm	
	BS 929	(<0.005)	0.0017	(<0.005)	(<0.005)	.	0.0031	(<0.005)	.	0.0031	.	51 mm Ø x ~7 or 19+ mm 17025	
	NCS HS45743	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 30 mm	
	CURM 50.01	0.19	.	0.024	.	.	.	.	.	.	.	50 mm Ø x 10 - 12 mm	
	Number	Ag	As	Bi	C	Cd	Co	Cr	Mg	Se	Te	Units	

LEADED, TIN, AND LEADED TIN BRONZE CHART 2 of 2

= class, where 1 = CRM and 2 = RM

#	Number	Sn	Pb	Zn	Cu	Al	Fe	Mn	Ni	P	S	Sb	Si
1	BS 929MOD	8.9	2.9	0.25	84.2	(0.13)	0.11	0.007	3.34	(0.011)	(0.014)	(0.026)	0.0057
1	BS 903E	8.63	0.100	4.11	87.0	(0.001)	0.0072	.	0.293	0.056	0.0092	0.010	(0.0018)
2	CURM 50.03	8.41	8.86	1.72	77.42	0.005	0.018	0.037	2.89	0.159	0.064	0.24	0.005
1	IARM Cu903-18	8.3	(0.066)	4.6	86.5	(0.0010)	(0.012)	(0.0004)	0.41	(0.060)	(0.0017)	(0.002)	(0.0040)
1	32X LB10G	8.29	12.60	0.110	77.10	(0.0005)	0.0011	.	0.690	0.0034	0.0100	0.599	.
2	BS 903B	7.9	0.10	4.39	86.7	(0.001)	0.049	0.0004	0.50	0.073	0.006	0.003	0.002
1	NCS HS45741	7.77	2.92	4.04	Rem	0.057	0.27	.	0.204	0.093	.	0.108	0.051
1	BAM 374	7.60	0.00083	0.00404	92.22	.	0.0040	0.00043	0.00327	0.1697	(0.0013)	(0.00063)	(<0.0010)
2	BS 938-1	7.16	14.8	0.26	77.1	(<0.002)	(0.015)	(0.001)	0.49	(0.059)	0.009	0.033	(<0.004)
1	BS 936	6.99	10.7	0.244	81.5	0.0007	0.0026	(0.0006)	0.36	(0.053)	0.009	0.102	0.0040
1	32X LB10-22	6.8	11.3	0.50	.	.	.	.	0.172	0.019	0.014	0.212	.
1	IARM Cu932-18	6.82	7.95	3.44	81.2	(0.0007)	0.070	.	0.454	0.040	0.031	0.31	.
1	IARM 91E	6.69	7.59	3.68	81.3	0.0015	0.110	0.0007	0.300	0.026	0.028	0.168	0.0021
1	BS 932G	6.35	7.78	2.92	82.0	(0.002)	0.028	(0.0005)	0.39	0.11	0.035	0.173	0.0014
1	BS 932H	6.28	7.62	2.79	82.4	0.0020	0.019	(0.0005)	0.41	(0.11)	0.038	0.185	(0.002)
1	IARM 184A	6.0	19.0	0.37	(74)	0.0016	(0.003)	(0.002)	0.30	0.008	0.021	0.27	(0.002)
1	32X LB13D	5.98	7.04	0.77	85.1	0.0014	0.0159	.	0.629	0.033	0.074	0.092	0.008
1	BAM 377	5.92	0.00449	0.01006	94.04	0.00451	0.01042	0.000921	0.01074	(<0.0010)	(0.00068)	0.00130	(0.0134)
2	BS 922B-1	5.8	1.33	3.95	88.4	(0.001)	0.010	(0.002)	0.61	0.037	.	0.002	(0.001)
2	BS 922B-2	5.8	1.33	3.91	88.4	(0.001)	0.008	(0.002)	0.61	0.031	.	0.002	(0.001)
2	BS 922B-4	5.8	1.33	3.82	88.4	(0.001)	0.007	(0.002)	0.61	0.021	.	0.002	(0.001)
2	BS 922B-5	5.8	1.33	3.78	88.4	(0.001)	0.006	(0.002)	0.61	0.017	.	0.002	(0.001)
1	BAM 378	5.738	(0.00042)	(0.00073)	94.13	(<0.0001)	0.0182	(0.000074)	0.00183	0.0602	(0.00091)	0.00861	(<0.0010)
1	32X LB16A	5.55	18.78	0.450	74.42	(0.0012)	0.0040	.	0.793	(0.0018)	0.0011	(0.0012)	.
1	32X LB14H	5.16	15.04	0.254	78.4	0.0008	0.041	.	0.300	0.039	0.036	0.103	0.0012
1	IARM 267A	4.95	0.026	2.06	87.8	0.003	0.019	(0.002)	5.1	0.037	0.0014	<0.03	0.003
1	BS 836D	4.82	4.9	4.84	84.8	0.0011	0.026	(0.0002)	0.370	0.086	0.039	0.108	0.0027
1	BS 836B	4.71	4.6	4.85	85.2	0.0015	0.022	(0.0007)	0.377	0.096	0.036	0.102	(0.0032)
1	BS 836C	4.7	4.72	4.91	85.0	(0.0015)	0.017	(0.0007)	0.370	0.066	0.038	0.104	0.0032
1	32X LB15F	4.53	20.15	0.147	74.5	0.0009	0.0039	.	0.104	0.063	0.021	0.198	0.0018
2	HRT CU2022	4.04	2.54	5.44	87.4	(0.001)	0.0304	.	0.433	0.0204	0.0235	0.0477	0.0027
1	BAM M397	3.99	0.229	1.96	.	.	.	.	0.336	.	0.45	0.097	.
1	BAM M397a	3.9	0.227	1.87	.	.	.	.	0.337	.	0.45	0.097	.
1	IARM 72B	0.029	1.99	7.81	90.08	.	0.007	.	0.004	0.005	0.0015	0.006	(0.002)

#	Number	Sn	Pb	Zn	Cu	Al	Fe	Mn	Ni	P	S	Sb	Si
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Number	Ag	As	Bi	C	Cd	Co	Cr	Mg	Se	Te	Units	
BS 929MOD	.	0.0020	.	(0.003)	.	(0.0017)	.	O:0.0007	.	.	51 mm Ø x ~7 or 19+ mm	17025, 17034
BS 903E	.	(0.002)	.	(0.002)	.	(0.002)	(0.0007)	N:(0.0004)	O:(0.007)	.	38 mm Ø x ~7 or 19+ mm	17025, 17034
C50.03	.	0.094	0.027	.	.	.	.	.	.	.	50 mm Ø x 10-12 mm	.
IARM Cu903-18	0.0059	(0.0010)	.	(0.0020)	.	0.0019	.	O:0.0013	.	.	31 mm Ø x 2 or 18 mm	.
32X LB10G	0.0686	0.169	0.093	.	.	0.084	.	.	.	.	~40 mm Ø x ~15 mm	.
BS 903B	.	0.003	.	(0.0004)	.	.	.	.	.	.	38 mm Ø x ~7 or 19+ mm	last
NCS HS45741	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 30 mm	.
BAM 374	0.00121	(0.00043)	(0.00022)	.	.	.	.	.	(<0.0002)	.	40 mm Ø x 30 mm	.
BS 938-1	0.0048	(0.004)	.	.	.	.	.	.	.	.	38 mm Ø x 12 mm	.
BS 936	O:0.0026	0.0045	N:(0.0001)	(0.0025)	.	(0.003)	(0.00004)	.	.	Ti:(0.00006)	50 mm Ø x 19+ mm	17025
32X LB10-22	0.0136	0.0050	0.016	.	.	0.0004	(0.0003)	.	.	.	50 mm Ø x 20 mm	.
IARM Cu932-18	0.019	0.0073	0.094	(0.0025)	0.0007	(0.0024)	.	.	(0.009)	.	38 mm Ø x ~3 or 19 mm	.
IARM 91E	0.015	0.008	0.109	(0.003)	0.0011	(0.0024)	(0.0008)	.	0.004	.	31 mm Ø x 2 mm	.
BS 932G	.	0.0096	.	(0.011)	.	0.0025	(0.001)	.	O:0.0014	.	38 mm Ø x ~7 or 19+ mm	17025, 17034
BS 932H	.	0.010	.	(0.007)	.	0.0028	.	O:0.0016	.	.	38 mm Ø x ~7 or 19+ mm	17025, 17034
IARM 184A	(0.01)	0.010	(0.03)	(0.004)	.	(0.001)	(0.001)	.	.	.	31 mm Ø x 2 or 18 mm	.
32X LB13D	0.0249	0.118	0.058	.	0.0006	0.0044	.	.	.	.	~40 mm Ø x ~15 mm	.
BAM 377	0.00644	(<0.0010)	0.00422	.	.	.	0.00669	.	0.0055	.	40 mm Ø x 30 mm	.
BS 922B-1	(0.001)	0.001	.	.	.	.	.	.	.	.	41 mm Ø x 12 mm	.
BS 922B-2	(0.001)	0.001	.	.	.	.	.	.	.	.	41 mm Ø x 12 mm	.
BS 922B-4	(0.001)	0.001	.	.	.	.	.	.	.	.	41 mm Ø x 12 mm	.
BS 922B-5	(0.001)	0.001	.	.	.	.	.	.	.	.	41 mm Ø x 12 mm	.
BAM 378	0.00266	0.00995	(<0.0001)	.	0.01007	0.0089	0.0311	0.00287	(<0.0002)	0.00850	40 mm Ø x 30 mm	.
32X LB16A	0.0016	.	0.0120	.	.	.	.	.	.	.	32 mm Ø x 17 mm	.
32X LB14H	0.046	0.055	0.496	.	0.0005	0.0018	.	.	.	.	~40 mm Ø x ~15 mm	.
IARM 267A	(0.002)	(0.004)	(0.005)	(0.003)	.	(0.002)	(0.001)	.	(0.002)	.	31 mm Ø x 2 or 18 mm	.
BS 836D	0.023	0.0081	0.093	(0.003)	.	0.0027	O:0.0012 (0.0004)	.	Be:(0.00009)	.	44 mm Ø x ~7 or 19+ mm	17025, 17034
BS 836B	0.025	0.0081	0.10	(0.0032)	.	0.0027	O:0.0010 (0.0005)	.	Be:(0.00009)	.	44 mm Ø x ~7 or 19+ mm	17025, 17034
BS 836C	0.024	0.0082	0.10	(0.003)	.	0.0027	O:0.0014 (0.0007)	.	Be:(0.000005)	.	44 mm Ø x ~7 or 19+ mm	17025, 17034
32X LB15F	0.023	0.0163	0.129	.	0.0006	0.0004	.	.	.	.	~40 mm Ø x ~15 mm	.
HRT CU2022	.	0.0058	0.0035	.	(0.0006)	.	.	.	0.0035	.	47 mm Ø x 20 mm	.
BAM M397	.	(0.00029)	.	.	.	.	.	.	<0.0001	<0.0001	40 mm Ø x 30 mm	.
BAM M397a	.	(0.00029)	<0.0001	<0.0001	40 mm Ø x 30 mm	.
IARM 72B	.	(0.003)	.	0.002	31 mm Ø x 2 or 18 mm	.

Number	Ag	As	Bi	C	Cd	Co	Cr	Mg	Se	Te	Units
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CRM LEADED, TIN, AND LEADED TIN BRONZE DISC AND ROD SETS

available individually except IMN WL4 and WL5 are SET ONLY IMN BB: 10 mm Ø x 100 mm IMN BL: 40 mm Ø x 27 mm IMN BI, WL: 40 mm Ø x 25 mm

Number	Al	As	Bi	C	Cd	Co	Cu	Fe	Mg	Mn	Ni	P	Pb	S	Sb	Si	Sn	Zn
IMN BL1	0.11	0.058	0.024	.	0.060	.	Rem	0.38	0.051	0.062	0.25	0.49	0.25	(0.0081)	0.053	0.059	2.58	0.68
IMN BL2	0.15	0.039	0.014	.	0.040	.	Rem	0.21	0.11	0.055	0.37	0.29	0.14	(0.0063)	0.039	0.031	4.04	0.40
IMN BL3	0.019	0.025	0.0099	.	0.022	.	Rem	0.10	.	0.026	0.13	0.084	0.065	.	0.021	0.015	6.12	0.15
IMN BL4	.	0.0089	0.0058	.	0.0092	.	Rem	0.014	.	0.0092	0.015	0.010	0.013	(0.022)	0.0095	0.011	8.38	0.017
IMN BL5	0.00052	0.00057	0.0015	.	0.0015	.	Rem	0.0061	0.0030	0.0011	0.0074	0.0042	0.0069	0.031	0.0039	(0.0038)	11.05	0.0078
IMN BB1	0.019	0.086	0.032	.	.	.	84.82	0.33	.	0.081	0.061	0.055	1.55	.	0.60	0.037	8.10	3.90
IMN BB2	0.032	0.12	0.024	.	.	.	84.09	0.28	.12	0.12	0.097	0.085	2.64	.	0.49	0.055	7.11	4.70
IMN BB3	0.0021	0.0079	0.0021	.	.	.	80.88	0.037	.	0.0012	2.42	(0.014)	6.73	.	0.052	0.0044	3.36	6.23
IMN BB4	0.0062	0.029	0.011	.	.	.	81.32	0.086	.	0.020	1.20	(0.030)	6.14	.	0.21	0.018	2.58	8.11
IMN BB5	0.015	0.051	0.018	.	.	.	82.25	0.14	.	0.054	0.49	0.037	5.18	.	0.31	0.028	4.11	7.21
IMN BB6	0.040	0.16	0.041	.	.	.	83.54	0.31	.	0.15	0.23	0.12	3.52	.	0.62	0.083	5.47	5.40
IMN BI1	0.15	0.14	0.12	.	.	.	Rem	0.42	.	0.26	2.41	0.70	6.97	(0.011)	0.58	0.23	3.19	3.55
IMN BI2	0.077	0.11	0.070	.	.	.	Rem	0.31	.	0.15	1.46	0.59	5.39	(0.0055)	0.43	0.13	4.18	5.73
IMN BI3	0.034	0.052	0.028	.	.	.	Rem	0.17	.	0.082	0.29	0.32	4.52	(0.003)	0.24	0.075	5.01	7.16
IMN BI4	0.0020	0.010	0.0030	.	.	.	Rem	0.083	.	0.025	0.088	0.029	3.82	(0.002)	0.075	0.014	7.69	10.22
IMN WL1	0.082	0.0010	0.0093	0.0050	0.0017	0.0010	95.54	0.072	0.00036	0.0041	0.44	0.012	0.013	0.020	.	0.057	0.22	3.52
IMN WL2	0.057	0.0078	0.0073	0.0082	0.0023	0.0065	97.49	0.13	0.00097	0.0038	0.32	0.016	0.011	0.0070	0.0050	0.046	0.32	1.56
IMN WL3	0.0034	0.020	0.0050	0.010	0.010	0.0096	96.51	0.20	0.0016	0.38	0.22	0.021	0.0083	0.0088	0.0085	0.0037	0.37	2.21
IMN WL4	.	0.0034	0.0026	0.0032	0.0068	0.013	96.41	0.012	.	.	0.019	.	0.0066	0.0050	.	0.0019	0.55	2.97
IMN WL5	0.0014	0.0011	0.0011	.	0.0038	0.019	97.62	0.0025	.	0.00073	0.0014	.	0.0030	0.0019	0.0006	0.0009	0.73	1.61
IMN WL6	0.10	0.024	0.012	0.016	0.025	0.019	95.76	0.31	0.015	0.14	0.091	0.032	0.016	0.017	0.011	0.13	0.80	2.48

COPPER ALLOY XRF SET

Part Number: BS CU-22 AVAILABLE INDIVIDUALLY ~7 mm thick discs (BS 938-1 ~12mm) 17025

CDA Number	Cu	Al	Fe	Mn	Ni	Pb	Si	Sn	Zn	As	C	P	S	Sb	Be	Co
110	BS 110B	99.94	<0.0002	0.0005	<0.0001	<0.0002	<0.0004	<0.0002	<0.0003	<0.0001	0.0007	<0.0006	0.00030	<0.0005	<1ppm	<1ppm
145	BS 14500	99.4	(0.0006)	0.0041	0.00004	0.0008	(0.002)	0.0002	0.004	(0.0005)	0.0005	0.0075	0.0033	(0.001)	(0.001)	0.0363
172	BS 172Be-1	97.68	0.052	0.0010	0.039	(0.002)	0.055	0.033	0.0070	(0.001)	(0.001)	0.003	(0.0002)	0.008	1.89	0.206
360	BS 360A	61.42	<0.001	0.151	0.0007	0.058	<0.005	0.13	35.63	0.002	(0.0032)	0.001	(0.0003)	0.008	.	.
464	BS 464A	60.6	(0.001)	0.013	0.0002	0.004	<0.01	0.62	38.73	<0.002	(0.0006)	0.012	0.001	(0.001)	.	.
482	BS 482A	60.0	(0.003)	0.020	<0.002	(0.007)	0.50	(0.002)	0.65	<0.002	(0.0015)	<0.003	<0.002	0.0012	.	.
510	BS 510A	96.10	<0.002	0.005	<0.002	0.020	<0.003	4.6	0.21	0.0008	(0.0006)	0.11	0.008	(0.003)	.	.
544	BS 544A	88.4	(0.0005)	0.092	<0.002	0.16	<0.002	4.42	3.42	0.011	0.003	0.021	0.038	0.040	.	.
623	BS 623A	88.13	9.12	2.19	0.273	0.146	0.014	0.002	0.008	(0.006)	(0.002)	<0.002	(0.0005)	<0.002	.	.
630	BS 630A	81.0	10.05	3.73	0.11	4.81	0.0069	0.037	0.019	(0.002)	0.005	<0.01	(0.001)	<0.001	.	.
642	BS 642A	91.0	6.70	0.17	0.005	0.025	0.001	1.80	0.018	<0.002	0.001	0.001	<0.001	(0.0002)	.	.
655	BS 655A	95.74	(0.002)	0.075	0.91	0.008	3.14	0.07	0.02	<0.002	(0.0006)	(0.004)	(0.0003)	<0.002	.	.
675	BS 675A	58.5	<0.002	1.12	0.32	0.019	(0.005)	0.80	39.1	<0.002	(0.0007)	0.010	(0.0005)	0.0011	.	.
706	BS 706A	87.60	(0.002)	1.30	0.66	10.18	<0.005	0.011	0.13	<0.0005	0.004	0.006	0.012	0.0006	.	.
715	BS 715A	69.0	(0.01)	0.61	0.82	30.22	(0.007)	0.10	0.008	(0.0014)	0.03	0.006	0.001	(0.003)	.	.
863	BS 863A	64.1	5.21	2.41	3.00	0.29	0.022	0.034	24.8	0.010	0.003	(0.007)	<0.0005	0.003	.	.
903	BS 903B	86.7	(0.001)	0.049	0.0004	0.50	0.10	0.002	4.39	0.003	(0.0004)	0.073	0.006	0.003	.	.
922	BS 922B-1	88.4	(0.001)	0.010	(0.002)	0.61	1.33	(0.001)	5.8	0.001	.	0.037	.	0.002	.	Ag: (0.001)
929	BS 929	85.3	<0.00005	0.0030	.	3.37	<0.001	9.07	0.0055	0.0017	(0.0005)	0.119	0.0026	0.0146	.	0.0031
938	BS 938-1	77.1	<0.002	0.015	(0.001)	0.49	<0.004	7.16	0.26	(0.004)	.	0.059	0.009	0.033	.	Ag: 0.0048
954	BS 954A	85.64	10.17	3.50	0.10	0.20	0.016	0.029	0.30	(0.006)	0.004	0.012	<0.0001	0.001	.	.
955	BS 955C	80.6	10.68	4.04	0.06	4.31	0.003	0.025	0.15	<0.002	.	0.012	.	<0.002	.	Ag: 0.014

ALLOY	ISO?	NUMBER	ALLOY	ISO?	NUMBER	ALLOY	ISO?	NUMBER
101		IARM Cu101-18	630		IARM 80D	922		BS 922B-4
110	17025	BS 110B	632		CTIF CA26	922		BS 922B-5
110	17034	BS 110C	642	17025	BS 642B	927.1		32X SN1
110		IARM Cu110-18	642	17025	BS 642C	929	17025	BS 929
110		IARM 70C	642	17034	BS 642D	929 MOD	17034	BS 929MOD
122.2		CURM 09.03	642		IARM 81B	931 MOD		C71.34
125		CURM 09.02	642		IARM Cu648-18	932	17034	BS 932G
145	17025	BS 14500	647		IARM Cu647-18	932	17034	BS 932H
145	17034	BS 14500A	655		37X 65500	932		IARM 91E
172		BS 172Be-1	655		BS 655A	932		IARM Cu932-18
172	17034	BS 172Be-2	655	17025	BS 655B	932 MOD		CTIF B23
172		CTIF 4872	655	17025	BS 655C	936	17025	BS 936
172		IARM Cu172-18	655		IARM 82B	936		CTIF B31
172		IARM Cu172-19	655		IARM Cu655-18	937		32X 93700
173		36X CBC4	656.8		HRT Cu2021	937	17025	BS 937C
175.1		36x CBC5	675		BS 675	937		CURM 50.02
175.1	17034	BS 17510	675		BS 675A	937		IARM 92C
180		36X 274	675	17025	BS 675B	938		BS 938-1
181.50	17025	BS 18150	675		IARM 83B	941		32x LB16
181.50	17025	BS 18150A	687		BAM 368	941		IARM 184A
181.55		36X CCR1	693		ERM-EB393A	945 MOD		CTIF B32
182		IARM 279A	693		IARM 313A	947		IARM 267A
182		IARM Cu182-18	702.6		37X 218	952.2		CTIF 2152-S
240		C30.07	706		36X 70600A	953		CTIF CA3
260		C48.06	706		BS 706	954		BS 954A
260		CURM 48.04	706		BS 706A	954		BS 954B
261.3		C48.03	706		BS 706B	954		BS 954C
274		C38.06	706	17034	BS 706C	954		BS CC954
274		C38.06-1	706		CTIF CuNi 10	954		IARM Cu954-18
280		C30.03	706		IARM 84C	954		IARM Cu954-19
280		C30.12	706		HRT CU2014	954		IARM Cu954-21
314		IARM 72B	713		BAM 389	955		BS 955C
360	17025	BS 360B	715		36X 71500	955		IARM Cu955-18
360	17034	BS 360C	715		BS 715A	955 MOD		CTIF CA10
360	17034	BS 360D	715	17034	BS 715B	955.1		IARM 334A
360		IARM Cu360-18	715	17034	BS 715C	955.1		IARM 334B
360		SRM 1124	715		IARM 85C	955.1 MOD		CTIF CA22
370		31X B18	715		IARM Cu715-18	956		32X CA12
371		C30.22	715		IARM Cu715-20	964		IARM 236A
464		BS 464A	715		SRM 1276a	976		IARM 298A
464	17034	BS 464B	767		C65.28	Coinage Alloy		36X CN21
464		IARM Cu464-21	798.3		34X 79830	Coinage Alloy		36X CN23
482		BS 482A	815		IARM 158C	Cu IX		SRM C1252a
482		IARM 75B	836	17034	BS 836B	Cu VIII		SRM C1251a
482		IARM 75C	836	17034	BS 836C	Cu X		SRM C1253a
485	17034	BS 485A	836	17034	BS 836D	CuSn5Zn5Pb2		HRT CU2022
485		IARM 76D	836		IARM Cu836-18	Envirobrass 2-1		IARM 226A
485		IARM Cu485-18	836 + Al		IMN BR1	Envirobrass 2-2		IARM 227A
486		IARM Cu486-18	838		33X GM8	Envirobrass 2-3		IARM 228A
510		32X 51000	844		IARM Cu844-18	Federalloy I-836		IARM 265A
510		BS 510A	855		31X B2N	Federalloy I-844		IARM 264A
510	17025	BS 510B	855		31X TB3	Federalloy I-848A		IARM 263A
510	17034	BS 510C	855		C38.01	Federalloy III-932		IARM 266A
510		IARM 77B	855		C38.02	Hiduron 130		IARM CuH130-18
510		IARM Cu510-18	855		C38.03	Hiduron 191		IARM CuH191-18
512		32X 92100	855		C38.04	NARloy-A		IARM 159A
521		32X 52100	855		C38.05	NARloy-Z		IARM 160A
521		HRT CU2016	857		BS 857B-1	Spinodal Alloy		36X SP1
524		C11.04	857		BS 857B-2	Spinodal Alloy		36X SP2
544		33X 54400	857		BS 857B-3			
544	17025	BS 544B	857		BS 857B-4			
544	17034	BS 544C	862		CTIF LH7			
544		IARM 78B	863	17025	BS 863B			
544		IARM Cu544-18	863		IARM 88C			
544 MOD	17025	BS 544c	873		31X WSB6			
610 MOD		31X B17	893.2, Magnolia B		IARM CuMB1-18			
614		32X 61400	902		BAM 377			
623		32X CA7	903		BS 903B			
623		BS 623	903	17034	BS 903E			
623		BS 623A	903		IARM Cu903-18			
623		IARM 79B	905		BS 905A-1			
623		IARM 79C	905		BS 905A-2			
624		32X ALB3	905		BS 905A-3			
624	17034	BS 624	905		BS 905A-4			
624		C52.51	907		IARM 310A			
624		CTIF 3011-G	908		32X PB10			
624		CTIF CA21	910 MOD		CTIF B1			
630	17025	BS 630B	922		BS 922B-1			
630	17025	BS 630C	922		BS 922B-2			

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

Alloy	Notes	Cu	Ag	Al	Fe	Mn	Ni	P	Pb	S	Sb	Si	Sn	Zn	As	Be	Bi	Co	Cr	Mg	Ti	Zr
197		rem			0.30-1.20	<0.05	<0.05	0.10-0.40	<0.05				<0.02	<0.20				<0.05		0.01-0.20		
197.1	Ni+Co <0.10	rem			0.05-0.40	<0.05	<0.10	0.07-0.15	<0.05				<0.20	<0.20						0.03-0.06		
197.2	Ni+Co <0.10	rem			0.05-0.50	<0.05	<0.10	0.05-0.15	<0.05				<0.20	<0.20						0.06-0.20		
197.5		rem			0.35-1.20	<0.05	<0.05	0.10-0.40	<0.05				0.05-0.40	<0.20				<0.05		0.01-0.20		
198		rem			0.02-0.50			0.01-0.10					0.10-1.00	0.30-1.50						0.10-1.00		
198.1		rem			1.5-3.0			<0.10						1.0-5.0					<0.10	<0.10	<0.10	
199		>99.50			<0.05									rem							2.9-3.4	
205		97.0-98.0			<0.05			<0.02						rem								
210		94.0-96.0			<0.05			<0.03						rem								
220		89.0-91.0			<0.05			<0.05						rem								
226		86.0-89.0			<0.05			<0.05						rem								
230		84.0-86.0			<0.05			<0.05						rem								
230.3		83.5-85.5			<0.05			<0.05				0.20-0.40		rem								
234		81.0-84.0			<0.05			<0.05						rem								
240		78.5-81.5			<0.05			<0.05						rem								
240.8		78.0-82.0		<0.10				<0.20						rem								
250		74.0-76.0			<0.05			<0.05						rem								
256		71.0-73.0			<0.05			<0.05						rem								
260		68.5-71.5			<0.05			<0.07						rem								
261		68.5-71.5			<0.05			0.02-0.05						rem								
261.3		68.5-71.5			<0.05			<0.05						rem	0.02-0.08							
262		67.0-70.0			<0.05			<0.07						rem								
263.8		66.0-72.0			<0.05			<0.30						rem								
268		64.0-68.5		<0.10	<0.05			<0.15						rem								
270		63.0-68.5			<0.07			<0.10						rem								
272		62.0-65.0			<0.07			<0.07						rem								
274		61.0-64.0			<0.05			<0.10						rem								
280		59.0-63.0			<0.07			<0.30						rem								
282		58.0-61.0		<0.005	<0.05			0.12-0.22					<0.05	rem								
285.8		49.0-52.0		<0.10	<0.10			<0.30						rem								
298		49.0-52.0		<0.10	<0.10			<0.50						rem								
310		89.0-91.0			<0.10			0.30-0.70						rem								
312		87.5-90.5			<0.10			0.7-1.2						rem								
314		87.5-90.5			<0.10			1.3-2.5						rem								
316		87.5-90.5			<0.10			1.3-2.5						rem								
Alloy	Notes	Cu	Ag	Al	Fe	Mn	Ni	P	Pb	S	Sb	Si	Sn	Zn	As	Be	Bi	Co	Cr	Mg	Ti	Zr
320		83.5-86.5			<0.10			<0.25	1.5-2.2					rem								
325		72.0-74.5			<0.10				2.5-3.0					rem								
325.1		69.0-72.0			<0.07				0.30-0.70					rem	0.02-0.06							
330		65.0-68.0			<0.06				0.25-0.70					rem								
331		65.0-68.0			<0.06				0.8-1.5					rem								
332		65.0-68.0			<0.07				1.5-2.5					rem								
335		62.0-65.0			<0.15				0.25-0.70					rem								
335.3		62.5-66.5			<0.10				0.30-0.80					rem	0.02-0.06							
340		62.0-65.0			<0.15				0.8-1.5					rem								
342		62.0-65.0			<0.15				1.5-2.5					rem								
344		62.0-66.0			<0.10				0.50-1.00					rem								
345		62.0-65.0			<0.15				1.5-2.5					rem								
347		62.5-64.5			<0.10				1.0-1.8					rem								
348		61.5-63.5			<0.10				0.40-0.80					rem								
349		61.0-64.0			<0.10				0.10-0.50					rem								
350		60.0-63.0			<0.15				0.8-2.0					rem								
353		60.0-63.0			<0.15				1.5-2.5					rem								
353.3		60.5-64.0			<0.10-0.30				1.5-3.5					rem	0.02-0.25							
353.4		60.0-63.0			<0.10-0.30				1.5-2.5					rem								
356		60.0-63.0			<0.15				2.0-3.0					rem								
360		60.0-63.0			<0.35				2.5-3.7					rem								
362		60.0-63.0			<0.15				3.5-4.5					rem								
365		58.0-61.0			<0.15				0.25-0.70				<0.25	rem								
366		58.0-61.0			<0.15				0.25-0.70				<0.25	rem	0.02-0.06							
367		58.0-61.0			<0.15				0.24-0.70		0.02-0.10			rem								
368		58.0-61.0			<0.15			0.02-0.10	0.25-0.70				<0.25	rem								
370		59.0-62.0			<0.15				0.8-1.5					rem								
371		58.0-62.0			<0.15				0.6-1.2					rem								
377		58.0-61.0			<0.30				1.5-2.5					rem								
377.1		56.5-60.0			<0.30				1.0-2.5					rem								
378		56.0-59.0			<0.30				1.5-2.5					rem								
380		55.0-60.0		<0.50	<0.35				1.5-2.5				<0.30	rem								
380.1		55.0-60.0		0.10-0.60	<0.30				1.5-3.0					rem								
385		55.0-59.0			<0.35				2.5-3.5					rem								
Alloy	Notes	Cu	Ag	Al	Fe	Mn	Ni	P	Pb	S	Sb	Si	Sn	Zn	As	Be	Bi	Co	Cr	Mg	Ti	Zr

Alloy	Notes	Cu	Ag	Al	Fe	Mn	Ni	P	Pb	S	Sb	Si	Sn	Zn	As	Be	Bi	Co	Cr	Mg	Ti	Zr
958.2		>77.50		9.0-10.0	4.0-5.0	<1.50	4.5-5.8	.	<0.02	.	.	<0.10	<0.20	<0.20	.	.	.	.	.	.	.	.
959		rem		12.0-13.5	3.0-5.0	<1.50	<0.50	<0.02	<0.01	<0.02	.	<0.50	.	.	.	.	.	.	.	.	.	.
962	C <0.10, Nb <0.00	rem			1.0-1.8	<1.50	9.0-11.0	<0.02	<0.01	<0.02	.	<0.50	.	.	.	.	.	.	.	.	.	.
963	C <0.15, Nb 0.50-1.50	rem			0.50-1.50	0.25-1.50	18.0-22.0	<0.02	<0.01	<0.02	.	<0.50	.	.	.	.	.	.	.	.	.	.
964	C <0.15, Nb 0.50-1.50	rem			0.25-1.50	<1.50	28.0-32.0	<0.02	<0.03	<0.02	.	<0.50	.	.	.	.	.	.	.	.	.	.
966		rem			0.8-1.1	<1.00	29.0-33.0	.	<0.01	.	.	<0.15	.	.	0.40-0.70	.	.	.	.	.	0.01-0.20	0.1-0.2
967		rem			0.7-1.0	<0.70	29.0-33.0	<0.01	<0.01	<0.02	.	<0.15	.	.	1.10-1.20	.	.	.	.	0.005-0.15	<0.01	.
969	Nb 0.10-0.30, B <0.01	rem		<0.10	<0.50	0.05-0.30	9.5-10.5	<0.005	<0.005	<0.0025	<0.02	<0.05	7.5-8.5	<1.00	.	.	.	.	.	<0.15	.	.
968	Nb <0.10	rem			<0.50	0.50-0.30	14.5-15.5	<0.02	<0.02	.	.	<0.30	5.8-8.5	<0.50	.	.	.	.	.	<0.15	.	.
969.5	Nb <0.10	rem			<0.50	0.05-0.40	11.0-15.5	<0.02	<0.02	.	.	<0.30	5.8-8.5	<0.50	.	.	.	.	.	<0.15	.	.
973		53.0-58.0		<0.005	<1.50	<0.50	11.0-14.0	<0.05	8.0-11.0	<0.08	<0.35	<0.15	1.5-3.0	17.0-25.0	.	.	.	.	.	.	.	.
974		58.0-61.0			<1.50	<0.50	15.5-17.0	<0.05	4.5-5.5	<0.08	<0.25	<0.15	2.5-3.5	rem	.	.	.	.	.	.	.	.
976		63.0-67.0		<0.005	<1.50	<1.00	19.0-21.5	<0.05	3.0-5.0	<0.08	<0.25	<0.15	3.5-4.5	3.0-5.0	.	.	.	.	.	.	.	.
978		64.0-67.0		<0.005	<1.50	<1.00	24.0-27.0	<0.05	1.0-2.5	<0.08	<0.20	<0.15	4.0-4.5	1.0-4.0	.	.	.	.	.	.	.	.
982		73.0-79.0			<0.70	.	<0.50	<0.10	21.0-27.0	<0.08	<0.30	.	0.6-2.0	<0.50	.	.	.	.	.	.	.	.
984		rem	<1.50		<0.70	.	<0.50	<0.10	26.0-33.0	.	<0.50	.	<0.50	<0.50	.	.	.	.	.	.	.	.
986		60.0-70.0	<1.50		<0.35	.	<0.50	<0.10	30.0-40.0	.	<0.50	.	<0.50	<0.50	.	.	.	.	.	.	.	.
988		56.5-62.5	<1.50		<0.35	.	.	<0.02	37.5-42.5	.	.	.	<0.25	<0.10	.	.	.	.	.	.	.	.
988.2		rem			<0.35	.	.	.	40.0-44.0	.	.	.	1.0-3.0	.	.	.	.	.	.	.	.	.
988.4		rem			<0.35	.	.	.	44.0-58.0	.	.	.	1.0-3.0	.	.	.	.	.	.	.	.	.
993	Incramet 800	rem		10.7-11.5	0.40-1.00	.	13.5-16.5	.	<0.02	.	.	<0.02	<0.05	.	.	.	1.0-2.0	.	.	.	.	.
993.5		rem		9.5-10.5	<1.00	<0.25	14.5-16.0	.	<0.15	.	.	.	7.5-9.5	.	.	.	.	.	.	.	.	.
994		rem		0.50-2.00	1.0-3.0	<0.50	1.0-3.5	.	<0.25	.	.	0.50-2.00	.	0.50-5.00	.	.	.	.	.	.	.	.
995		rem		0.50-2.00	3.0-5.0	<0.50	3.5-5.5	.	<0.25	.	.	0.50-2.00	.	0.50-2.00	.	.	.	.	.	.	.	.
996	C <0.05	rem		1.0-2.8	<0.20	39.0-45.0	<0.20	.	<0.02	.	.	<0.10	<0.10	<0.20	.	.	.	<0.20	.	.	.	.
997	Nb 4.0-6.0	>54.00		0.50-3.00	<1.00	11.0-15.0	4.0-6.0	.	<2.0	.	.	.	<1.00	19.0-25.0	.	.	.	.	.	.	.	.
997.5		55.0-61.0		0.25-3.00	<1.00	17.0-23.0	<3.0	.	0.50-2.50	.	.	.	0.50-2.50	17.0-23.0	.	.	.	.	.	.	.	.

These are specifications for reference purpose only, not samples for sale