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PURITY ALUMINUM SETTING-UP SAMPLES

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

Number	Ag	As*	B*	Ba*	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
AL RC11/05	0.010	50	.	50	0.0018	0.0081	0.0027	0.0050	0.012	0.014	0.016	0.046	0.021
KUT Al 4N	.	.	0.6	.	0.00001	0.00001	0.00002	0.0001	.	0.00006	0.0025	0.0018	0.00005
PY 60548	<0.001	.	.	.	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001
AL RC10/01	<0.0002	.	<2	<1	<0.0001	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	0.0002	0.001	<0.0002
R A 10	<0.0005	.	<5	.	<0.0001	<0.0020	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
V E10	<0.00005	.	<2	<3	<0.00002	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0004	<0.0005	<0.0001
V E1/0	<0.00001	.	<2	<1	<0.00001	<0.00005	<0.0001	<0.00002	<0.00001	<0.00005	<0.0004	<0.0003	<0.00002
V E0	<0.00001	.	<0.4	<0.1	<0.00001	<0.00002	<0.00004	<0.00002	<0.00001	<0.00003	<0.00004	<0.00005	<0.00001
AA SQ-10	.	.	.	.	.	.	.	.	.	.	.	.	.
C Al 0	.	.	.	.	.	.	.	.	.	.	.	.	.

Number	Hg*	In	Li	Mg	Mn	Mo*	Na	Ni	P	Pb	Sb	Si	Sn
AL RC11/05	50	0.010	0.0006	0.016	0.016	47	0.003	0.010	0.0028	0.015	0.013	0.023	0.017
KUT Al 4N	.	.	0.00002	0.0015	0.0002	.	0.0001	0.00004	.	0.0001	0.0002	0.0013	0.00005
PY 60548	.	.	<0.001	<0.001	<0.001	.	<0.001	<0.001	.	<0.001	<0.001	<0.01	<0.001
AL RC10/01	.	<0.0002	<0.0001	<0.0003	<0.0002	.	<0.0001	<0.0002	0.001	<0.0002	<0.0003	<0.002	<0.0002
R A 10	.	.	<0.0010	<0.0010	<0.0010	.	<0.0001	<0.0020	.	<0.0010	<0.0020	<0.0030	<0.0010
V E10	.	<0.0002	<0.00002	<0.0003	<0.0001	.	<0.0001	<0.0001	.	<0.0002	<0.0003	<0.0010	<0.0003
V E1	.	<0.00001	<0.00001	<0.0003	<0.00005	.	<0.0001	<0.00005	.	<0.00005	<0.0001	<0.0005	<0.00002
V E0	.	<0.00001	<0.00001	<0.00006	<0.00002	.	<0.00002	<0.00001	.	<0.00001	<0.00002	<0.00008	<0.00002
AA SQ-10
C Al 0

Number	Sr	Ti	V	Zn	Zr	Units
AL RC11/05	0.007	0.015	0.017	0.020	0.016	60 mm Ø x 25 mm
KUT Al 4N	0.0001	0.00006	0.0001	0.0003	0.00005	50 mm Ø x 35 mm
PY 60548	<0.001	<0.001	<0.001	<0.001	<0.001	60 mm Ø x 40 mm
AL RC10/01	<0.0001	<0.0002	<0.0002	<0.0005	<0.0002	60 mm Ø x 25 mm
R A 10	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	50 mm Ø x 50 mm
V E10	<0.00005	<0.0001	<0.0002	<0.0003	<0.0001	60 mm Ø x 40 mm
V E1	<0.00005	<0.0001	<0.00003	<0.0002	<0.00005	60 mm Ø x 40 mm
V E0	<0.00002	<0.00005	<0.00003	<0.00005	<0.00003	60 mm Ø x 40 mm
AA SQ-10	.	.	.	.	.	64 mm Ø x 37 mm
C Al 0	.	.	.	.	.	50 mm Ø x 30-50 mm

Ce: 0.0026 La: 0.013 Sc: 0.0086 W: 0.0045
Al: 99.96
1199 Alloy, no analysis issued
no analysis issued

POT METAL SETTING-UP SAMPLE typical analysis

Number	Base Metal	B	Li	Na	Units
AA SQ-18	P0506	0.02	0.02	0.02	64 mm Ø x 25 mm

RARE EARTHS IN ALUMINUM SETTING-UP SAMPLE typical analysis

Number	Ce	La	Nd	Pr	Sm	Al	Units
R Al Ce/3	0.7	0.3	0.1	0.06	0.01	remainder	60 mm Ø x 40 mm

SPECIALTY SETTING-UP SAMPLES typical analysis

Number	As	Bi	Cu	Fe	Mg	P	Pb	Sb	Sc	Si	Ti	Units
PY 10914	.	0.7	0.3	0.2	1.2	.	0.8	.	.	0.9	0.05	60 mm Ø x 41 mm
AA SQ-19	0.03	.	.	.	.	0.014	.	0.02	0.20	.	.	64 mm Ø x 37 mm

ALUMINUM SETTING-UP SAMPLES, chart 2 of 2

typical analysis

Number	Si	Cu	Fe	Mg	Mn	Ni	Zn	Be	Ca	Cr	Na	Pb	Sb	Sn	Sr	Ti
PY 9632	0.8	4.1	0.32	0.48	0.71	.	0.033	.	.	0.0181	.	0.0096	.	.	.	0.022
AA SQ-17	0.7	0.35	0.4	1.6	0.12	0.12	0.12	0.005	.	0.25	.	0.1	.	0.1	.	0.08
BS 6061	0.55	0.29	0.19	0.81	0.010	0.004	0.04	.	.	0.050	.	0.010	.	<0.001	.	0.024
AA SQ-13	0.5	0.04	0.6	0.04	0.04	0.04	0.04	0.005	.	0.04	.	0.04	.	0.04	.	0.04
AL RC50/02	0.5	0.003	0.85	4.5	0.005	0.5	0.02	0.005	0.02	0.5	0.004	.	0.05	0.3	0.02	.
PY 906	0.40	0.005	0.19	0.43	0.03	0.005	0.019	.	.	<0.004	<0.0001	.	.	.	.	0.011
BS 2017	0.30	4.05	0.25	0.51	0.51	0.006	0.065	.	.	0.015	.	0.010	.	0.002	.	0.020
IARM 221C	0.2	0.6	0.2	4.8	0.4	.	6.8	0.005	0.03	0.2	.	.	0.01	.	.	0.1
IARM 221D	0.2	0.6	0.2	4.7	0.4	.	6.7	0.005	0.03	0.2	.	.	0.02	.	.	0.1
IARM 221A	0.2	0.6	0.2	4.8	0.4	.	6.7	0.005	0.03	0.2	.	.	0.01	.	.	0.1
IARM 221B	0.2	0.6	0.2	4.8	0.4	.	6.8	0.005	0.03	0.2	.	.	0.01	.	.	0.1
AA SQ-11	0.2	0.5	0.2	3.0	0.4	.	6.6	0.005	0.02	0.25	.	.	.	.	.	0.10
PY 9627	0.2	0.13	0.57	0.0004	1.06	0.01	0.057	.	.	0.0223	<0.00002	0.0065	.	.	.	0.022
PY 310	0.16	0.0037	0.58	0.0003	0.0078	0.004	0.017	.	.	0.0028	<0.00002	0.0019	.	.	.	0.004
PY 9325	0.11	0.0069	0.24	4.33	0.4	.	0.014	0.0001	0.0003	0.0007	<0.00002	0.007	.	.	.	0.005
PY 9324	0.11	0.0055	0.24	4.28	0.4	.	0.014	0.0001	0.0003	0.0007	<0.00002	0.007	.	.	.	0.005
BS 7075	0.10	1.40	0.13	2.26	0.03	0.005	5.6	.	.	0.19	.	0.003	.	0.001	.	0.028
AA SQ-14	0.1	0.5	0.1	0.9	0.4	0.4	1.2	0.002	.	.	.	0.5	.	0.1	.	0.1
PY 9630	0.1	0.062	0.46	0.0006	0.0123	0.008	0.054	.	.	0.0216	0.00003	0.0035	.	.	.	0.018
PY 325	0.1	0.003	0.27	0.74	0.005	<0.001	0.021	.	0.0011	0.011	0.0001	0.001	.	.	.	0.01
PY 9806-1	0.08	6.9	1.3	0.08	1.9	.	0.05	.	.	0.3	.	.	0.4	.	.	.
BS 2024	0.08	4.7	0.20	1.30	0.57	0.006	0.07	.	.	0.03	.	0.006	.	0.001	.	0.030
PY 9614	0.08	0.043	0.18	2.28	0.055	0.01	0.051	.	0.0009	0.21	0.00006	0.0057	.	.	.	0.019
C Al 3	0.08	0.004	0.17	2.8	0.215	0.002	0.007	.	.	0.001	.	0.002	.	0.002	.	0.009
PY 9321	0.07	4.2	0.013	0.27	0.02	0.01	0.04	.	.	.	<0.00002	0.001	.	.	.	0.21
BS 2011	0.052	5.2	0.32	0.016	0.010	0.004	0.024	.	.	0.001	.	0.56	.	0.001	.	0.006
PY 9401	0.04	1.58	0.12	2.29	0.01	0.007	5.84	.	.	0.006	<0.00002	.	.	.	.	0.032
AL RC20/02	0.029	6.0	0.061	0.29	0.24	1.45	0.24	.	.	.	.	0.41	0.20	0.051	.	.
V E8	0.012	0.020	0.014	0.005	0.006	0.004	0.005	0.001	0.004	0.005	.	0.003	0.010	0.003	0.002	0.004
R Al Mn 12	.	.	.	.	12	.	.	.	.	.	.	.	.	.	.	.
V E5	.	.	.	4.8	1.3
V E4	.	.	.	1.1	0.7	.	5.2	.	.	0.2
V E13	.	.	4.8

Number	Si	Cu	Fe	Mg	Mn	Ni	Zn	Be	Ca	Cr	Na	Pb	Sb	Sn	Sr	Ti
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Number	Ag	B	Ba	Bi	Cd	Co	Ga	Hg	In	Li	V	Zr	Al	Ø X H mm
PY 9632	0.033	.	50 x 50
AA SQ-17	.	.	.	0.08	.	.	0.03	.	.	.	0.03	.	.	64 x 37
BS 6061	.	.	.	0.006	.	.	.	.	.	.	0.01	<0.002	.	62 x 50
AA SQ-13	.	.	.	0.04	0.04	0.01	0.03	.	.	.	0.04	0.4	.	64 x 37
AL RC50/02	Ce:0.1	0.005	0.02	La:0.1	0.2	Mo:0.03	0.03	P:0.005	0.05	0.003	0.01	0.01	W:0.04	60 x 25
PY 906	50 x 50
BS 2017	.	.	.	0.002	.	.	.	.	.	.	0.007	0.002	.	62 x 50
IARM 221C	0.2	0.03	.	.	.	.	.	.	63 x 39
IARM 221D	0.2	0.03	.	.	.	.	.	.	63 x 39
IARM 221A	0.2	0.03	.	.	.	.	.	.	63 x 39
IARM 221B	0.2	0.03	.	.	.	.	.	.	63 x 39
AA SQ-11	0.01	0.03	.	.	.	.	.	.	64 x 37
PY 9627	<0.0001	.	.	0.0001	.	0.00002	.	0.01	.	50 x 50
PY 310	<0.0002	.	.	<0.00002	.	0.00004	.	.	.	50 x 50
PY 9325	<0.0001	.	.	.	.	.	.	.	.	50 x 50
PY 9324	<0.0001	.	.	.	.	.	.	.	.	50 x 50
BS 7075	.	.	.	<0.001	.	.	.	.	.	0.006	0.006	.	.	62 x 50
AA SQ-14	.	.	.	0.5	.	.	.	.	.	.	.	.	.	64 x 37
PY 9630	0.0002	.	.	0.0001	.	0.00007	.	.	.	50 x 50
PY 325	.	0.0007	.	.	.	.	.	.	.	.	0.006	0.0005	.	50 x 50
PY 9806-1	.	.	.	0.7	0.9	.	.	.	.	.	.	.	.	60 x 40
BS 2024	.	.	.	0.002	.	.	.	.	.	.	0.01	0.01	.	62 x 50
PY 9614	0.0001	.	.	0.0004	.	.	.	0.02	.	50 x 50
C Al 3	0.011	.	.	.	.	.	96	50x30-50
PY 9321	50 x 50
BS 2011	.	.	.	0.44	.	.	.	.	.	.	0.007	<0.002	.	62 x 50
PY 9401	0.13	.	50 x 50
AL RC20/02	0.73	.	.	0.38	0.036	0.44	.	.	.	.	.	0.17	.	60 x 25
V E8	0.005	.	0.004	0.005	0.003	0.003	0.006	.	0.005	.	0.003	0.004	.	60 x 40
R Al Mn 12	3	.	50 x 50
V E5	.	.	.	0.2	.	.	.	.	.	0.01	.	.	.	60 x 40
V E4	0.20	.	.	.	0.06	0.4	0.2	.	60 x 40
V E13	60 x 40

Number	Ag	B	Ba	Bi	Cd	Co	Ga	Hg	In	Li	V	Zr	Al	Ø X H mm
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CERAMIC SETTING-UP SAMPLE

Number	Al	C	Fe	O	Ti	W	Units
JK CE 650A	34	6	2.1	30	21	0.8	~25 mm Ø x 8 mm

LEAD BASE SETTING-UP SAMPLES

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

Number	Sn	Sb	Ag	As	Bi	Cd	Cu	Fe	In	Ni	S	Te	Tl	Zn
R Pb 15	33.2	2.0	2.7	0.03	0.13	0.01	(2.0)	<0.01	<0.01	(0.003)	.	0.01	<0.001	0.14
R Pb 17	3.24	10.9	2.01	0.15	0.11	0.002	1.38	<0.001	0.0001	0.002	<0.001	0.006	<0.001	<0.001
168X Pb SUS1	1.3	6.2	0.01	0.37	0.04	0.015	0.03	0.002	0.01	0.003	0.002	0.01	0.001	0.001
168X Pb SUS5	0.9	0.4	0.2	0.3	0.35	0.09	0.06	(0.0002)	0.07	0.0005	0.0005	0.007	0.005	.
R Pb 13	0.22	0.09	0.05	0.04	0.27	0.02	0.10	<0.0001	<0.0001	<0.001	.	0.03	0.03	0.09
R Pb 16	0.19	<0.001	0.003	<0.001	0.02	<0.01	<0.01	<0.001	<0.0005	<0.0001	<0.0005	<0.001	<0.001	0.02
168X Pb SUS6	0.15	0.12	0.04	0.025	0.22	0.015	0.10	<0.001	0.01	0.003	0.0005	0.0005	0.03	0.002
168X Pb SUS7	0.1	7	.	.	0.05	0.005	0.05	.	0.002	.	0.001	0.02	0.01	(0.02)
R Pb 18	0.07	1.28	0.11	3.32	>3.34	0.02	0.05	<0.0001	0.02	<0.001	0.003	0.02	0.019	0.0001
R Pb 14	0.02	12.2	0.009	1.5	0.025	0.005	0.07	<0.001	0.001	<0.001	0.008	<0.005	<0.001	<0.001
R Pb 11	<0.0005	<0.0005	0.0010	<0.0005	0.0010	<0.0005	<0.0005	<0.0005	.	<0.0005	.	<0.0005	<0.0005	<0.0005
168X Pb SUSPM1	.	0.0001	0.0040	0.0002	0.0100	.	0.0005	0.0001	.	0.0003	0.0002	0.0001	0.0010	.
R Pb PM	.	.	0.0100	.	.	.	.	.	.	.	.	.	.	.

Number	Al	Au	Ba	Ca	Co*	Cr*	Ge	Hg	Ir*	Mg*	Mn*	Na	Pd	Pt	Rh*	Ru*	Se
R Pb 15	.	.	.	.	.	.	.	.	.	.	<1	.	.	.	.	.	.
R Pb 17	<0.001	(0.002)	.	.	20	<10	(0.001)	.	.	.	<10	.	(0.001)	(0.001)	.	.	.
168X Pb SUS1	.	0.001	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.01
168X Pb SUS5	.	0.002	.	.	.	.	.	0.015	.	.	.	.	.	.	.	.	0.002
R Pb 13	.	.	.	.	.	.	.	.	.	.	<1	.	.	.	.	.	0.005
R Pb 16	0.008	.	(0.01)	0.16	<1	<1	.	.	.	(10)	<1	(0.004)	.	.	.	.	.
168X Pb SUS6	.	0.001	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.003
168X Pb SUS7	.	0.005	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.01
R Pb 18	<0.0001	.	.	<0.0001	<1	1	.	.	.	.	<10	.	.	.	.	.	(0.01)
R Pb 14	.	.	.	.	.	.	.	.	.	.	<10	.	.	.	.	.	.
R Pb 11	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
168X Pb SUSPM1	.	0.0035	.	.	0.5	.	.	.	2	.	.	.	0.0020	0.0055	12	1	.
R Pb PM	.	0.0100	.	.	.	.	.	.	3	.	.	.	0.0050	0.0050	50	50	.

MAGNESIUM BASE SETTING-UP SAMPLES

cast typical analysis listed in mass %

Number	Mg	Al	Cd	Cu	Fe	Mn	Ni	Pb	Si	Sn	Zn	Zr
R Mg 11	99.9	0.022	.	<0.003	<0.004	0.022	<0.005	.	0.037	.	<0.005	.
166X MG SUS3	Rem	0.4	0.005	0.07	<0.005	0.8	0.02	0.04	0.01	0.005	0.09	.
58A ST6310	Rem	2.84	.	0.017	0.0057	0.437	(0.0018)	.	0.052	.	0.865	.
58A ST6420	Rem	3.37	1.39	0.02	0.0048	0.079	(0.0019)	.	0.026	.	0.324	.
R Mg 13 *	Rem	5.7	0.0001	0.006	0.001	0.2	0.001	0.001	0.01	0.001	0.8	0.004
C Mg 2 *	Rem	5.7	0.0001	0.006	0.001	0.2	0.001	0.001	0.01	0.001	0.8	0.004
R Mg 16	Rem	.	.	.	0.001	.	.	.	.	.	.	0.06
58A ST7310	Rem	0.004	.	1.64	0.0098	0.967	0.002	.	0.025	.	7.2	.
58A ST6610	Rem	6.57	.	0.036	0.01	0.421	0.0044	.	0.103	.	1.08	.
166X MG SUS2	.	8	0.004	0.02	0.005	0.4	0.02	0.04	0.12	0.01	0.4	.
R Mg 14	Rem	8	<0.01	0.3	0.01	(0.5)	0.05	.	0.8	0.1	1	<0.001
166X MG SUS4	Rem	9	0.04	0.2	0.02	0.12	0.003	0.02	0.015	0.05	5	.

continued * currently R Mg 13 and C Mg 2 have the same chemsity

Number	Ag	Be	Ca	Ce	Na	Nd	P	Pr	Sr	Ti	Y	Units
R Mg 11	.	.	.	.	.	.	.	.	.	.	.	50 mm Ø x 40-50 mm
166X MG SUS3	0.02	0.0005	.	.	.	.	<0.001	.	.	<0.001	.	~50 mm Ø x ~20 mm
58A ST6310	.	.	.	.	.	.	.	.	.	.	.	45 mm Ø x 25 mm
58A ST6420	.	.	.	.	.	.	.	.	.	.	.	45 mm Ø x 25 mm
R Mg 13 *	.	.	.	.	0.001	.	.	.	.	.	.	50 mm Ø x 40-50 mm
C Mg 2 *	.	.	.	.	0.001	.	.	.	.	.	.	50 mm Ø x 40-50 mm
R Mg 16	.	.	.	2.2	.	1.6	.	0.26	.	.	2.2	50 mm Ø x 40 mm
58A ST7310	.	.	.	.	.	.	.	.	.	.	.	45 mm Ø x 25 mm
58A ST6610	.	.	.	.	.	.	.	.	.	.	.	45 mm Ø x 25 mm
166X MG SUS2	0.005	0.0015	0.015	.	.	.	.	0.0003	.	.	.	40 mm Ø x 17 mm last of stock
R Mg 14	.	.	.	.	<0.01	.	.	.	.	.	.	50 mm Ø x 50 mm last of stock
166X MG SUS4	1.6	0.003	.	.	.	.	<0.005	.	.	0.005	.	~50 mm Ø x ~20 mm

NICKEL BASE SETTING-UP SAMPLES

typical analysis

Number	Ni	Al	C	Co	Cr	Cu	Fe	Mn	Mo	Nb	P	S	Si	Ti	W
R Ni 10	>99.90	<0.001	<0.001	<0.001	.	<0.01	<0.03	.	.	.	.	<0.005	<0.001	.	.
R Ni 11	99.4	<0.01	0.02	0.05	<0.01	.	0.06	0.27	.	.	<0.01	<0.01	0.18	<0.01	.
PV 202/1	.	.	0.085	.	14.48	0.253	7.48	0.217	.	.	(<0.01)	(<0.01)	0.472	.	.
BS SU 750	71.0	0.92	0.05	0.11	15.3	0.027	8.22	0.155	0.147	1.05	0.006	0.002	0.148	2.56	<0.5
R Ni 17	Rem	0.02	0.57	0.2	0.8	0.3	18	0.26	0.2	0.2	<0.01	<0.01	0.50	0.3	10
R Ni 12	65.0	3.2	0.12	<0.01	0.12	29.0	1.0	0.74	.	.	<0.01	<0.01	0.17	0.51	.
BS SU H230	60	0.26	0.087	0.26	22.4	0.08	1.2	0.47	1.44	0.016	0.0004	0.0002	0.42	0.016	12.7
R Ni 13	55.7	0.32	<0.01	0.14	16.0	0.01	6.1	0.5	17.5	0.01	<0.002	<0.001	.	<0.02	3.4
R Ni 15	52.4	0.5	0.03	0.06	18.7	0.02	19.5	0.05	3.0	4.5	<0.01	<0.01	0.07	0.9	0.13
R Ni 14	50.0	0.6	0.06	19.9	19.89	0.018	0.54	0.44	6.25	0.05	<0.01	<0.01	0.10	2.03	0.09
PV 204/1	39.46	.	0.017	.	22.49	1.93	30.35	0.773	3.27	.	0.014	(<0.01)	0.268	.	.

Number	As	B	Mg	N	O	Ta	V	Zr	Units
R Ni 10	40 mm Ø x 40 mm
R Ni 11	.	.	0.02	.	.	.	.	.	40 mm Ø x 40 mm
PV 202/1	40 mm Ø x 25 mm
BS SU 750	<0.005	0.005	0.003	0.005	<0.05	<0.05	0.04	0.035	38 mm Ø x 40+ mm
R Ni 17	.	0.03	.	.	.	0.02	0.06	.	40 mm Ø x 30 mm
R Ni 12	<0.01	.	.	40 mm Ø x 40 mm
BS SU H230	0.0040	0.010	.	0.059	0.0003	0.079	0.005	0.004	38 mm Ø x 40+ mm
R Ni 13	.	0.007	.	.	.	<0.003	0.18	.	40 mm Ø x 40 mm
R Ni 15	.	0.003	.	.	.	<0.001	0.05	0.02	40 mm Ø x 40 mm
R Ni 14	.	0.003	.	.	.	.	<0.01	<0.01	40 mm Ø x 40 mm
PV 204/1	40 mm Ø x 25 mm

NICKEL-PHOSPHORUS LAYER ON STEEL

Number	Ni	P%	Pb%	Layer	Intended For	Unit
JK SUS NiP-1	Rem	5.8	0.26	8.7µm	GD-OES	plate 102mm x 68mm x 0.5mm

ROHS/WEEE DIRECTIVE XRF DISCS

available individually or in SET/3

typical analysis

40 mm Ø x 5 mm

Number	Al ₂ O ₃	B ₂ O ₃	Br	CaO	CdO	Cl	Cr ₂ O ₃	MgO	Na ₂ O	PbO	Sb ₂ O ₃	SiO ₂
BR ROHS 1/3	7.0	5.5	0	10.0	0	0	0	6.5	17.0	0	1.0	53.0
BR ROHS 2/3	7.0	4.536	0.100	10.0	0.011	0.5	0.146	6.5	17.0	0.107	1.1	53.0
BR ROHS 3/3	7.0	2.118	0.5	10.0	0.114	1.0	0.73	6.5	17.0	0.538	1.5	53.0

TIN BASE SETTING-UP SAMPLES

typical analysis

Number	Sn	As	Bi	Cu	Fe	Pb	Sb	Ag	Al	Au	Cd	Co	Ge
R Sn 10	>99.99	<0.0010	<0.0005	<0.0005	<0.0005	<0.0010	<0.0020	<0.0001	<0.0005	.	<0.0001	.	.
R Sn 11	99.9	<0.001	<0.001	0.003	0.003	<0.001	0.012	.	.	.	.	.	.
1611X Sn SUS 6	.	0.3	0.08	0.4	0.03	1.0	0.15	0.1	.	0.001	0.01	0.02	.
1611X SAC305	.	.	.	0.47	.	0.11	.	2.9	.	.	0.35	.	.
R Sn 21	Rem	0.006	0.1	0.4	0.1	0.09	0.06	10	0.02	.	<0.001	0.1	0.1
R Sn 13	84.7	<0.01	0.05	0.2	0.13	1.3	13.4	<0.01	0.04	.	0.02	0.05	.
1611X Sn SUS 7	.	2.1	2.3	11	(0.06)	0.35	9	0.3	<0.001	0.005	0.03	0.005	.
R Sn 15	Rem	.	0.3	7.0	0.04	.	8	2.5	0.04	0.01	.	.	0.8
R Sn 20	Rem	<0.001	10	<0.01	<0.01	0.07	0.02	<0.001	<0.001	.	<0.001	<0.001	.
R Sn 12	Rem	0.26	0.11	1.0	<0.01	41.8	1.85	0.21	<0.001	.	0.12	<0.01	.
R Sn 14	45	.	40	.	.	.	.	.	.	.	12	.	.

Number	In	Ni	P	Pt	S	Se	Te	Tl	Zn	Units
R Sn 10	<0.0005	<0.0005	<0.0003	.	<0.0003	.	.	<0.0005	<0.0001	40 mm Ø x 40 mm
R Sn 11	.	.	.	.	.	.	.	.	<0.002	40 mm Ø x 40 mm
1611X Sn SUS 6	0.005	0.03	(0.005)	.	(0.001)	0.003	0.001	0.005	0.005	50 mm Ø x 20 mm
1611X SAC305	.	.	.	.	.	.	.	.	.	40 mm Ø x 6-10 mm
R Sn 21	0.08	0.4	<0.001	.	.	.	.	<0.001	0.3	40 mm Ø x 40 mm
R Sn 13	<0.01	0.23	.	.	.	.	.	<0.001	0.02	40 mm Ø x 40 mm
1611X Sn SUS 7	0.03	0.05	.	.	.	0.005	0.003	0.03	0.005	50 mm Ø x 20 mm
R Sn 15	.	0.03	.	.	.	.	.	.	0.06	40 mm Ø x 40 mm
R Sn 20	7.7	<0.01	<0.01	.	.	.	.	<0.001	25	40 mm Ø x 40 mm
R Sn 12	0.11	<0.01	.	.	.	.	.	0.03	<0.01	40 mm Ø x 40 mm
R Sn 14	.	.	0.05	.	.	.	.	.	.	40 mm Ø x 40 mm

TITANIUM BASE SETTING-UP SAMPLES

typical analysis		40 mm Ø x 40 mm								
Number	Ti	Al	C	Fe	Mo	Pd	Sn	V	Zr	
R Ti 11	99.9	.	0.01	0.05	.	.	.	.	.	.
R Ti 12	Rem.	.	0.02	0.2	.	0.2	.	.	.	.
R Ti 13	Rem.	6	<0.01	0.2	.	.	.	4	.	.
R Ti 14	Rem.	6	<0.02	0.02	2	.	2	.	4	.

ZINC BASE SETTING-UP SAMPLES

typical analysis		169X, 1690X: 50 mm Ø x 20 mm									C: 40 mm Ø x 30 mm			R: 40 mm Ø x 30 mm		
Number	Zn	Ag	Al	Bi	Cd	Cu	Fe	In	Mg	Mn	Ni	Pb	Sb	Sn	Ti	Tl
R Zn 11	99.99	.	<0.0005	.	<0.0005	<0.0010	<0.0010	.	<0.0005	<0.0005	<0.0005	<0.0010	.	<0.0005	<0.0005	.
R Zn 12	99.9	0.004	0.006	0.006	0.008	0.009	0.024	0.009	0.005	0.002	0.008	0.009 (0.01)	0.007	0.006	0.007	
R Zn 16	.	.	0.23	.	0.049	0.011	0.092	.	.	.	.	0.23	.	0.009	.	.
R Zn 15	Rem.	.	0.26	.	0.4	0.20	0.2	.	.	0.01	.	0.12	0.03	0.06	.	.
R Zn 13	97.5	0.05	0.3	.	0.3	0.3	0.009	0.26	<0.01	<0.01	0.05	0.6	0.2	0.3	<0.01	0.03
C Zn 3/3	.	.	3.92	.	0.0001	0.064	0.0106	.	0.046	.	.	0.0054	.	0.0010	.	last
C Zn 4/3	.	.	0.54	.	0.110	0.39	.	.	.	.	.	1.95	.	0.98	.	last
C Zn 4/2	.	.	0.107	.	.	0.39	0.67	.	.	.	.	1.97	.	0.96	.	last
169X ZnSUS1 *	.	0.04	0.35	0.005	0.3	0.35	0.05	0.25	0.002	0.001	0.06	0.6	0.2	0.3	0.001	0.06 last
R Zn 14	88.1	<0.001	9.3	.	0.01	2.3	0.07	<0.002	0.09	0.01	<0.002	0.05	<0.001	0.03	0.009	<0.005

* 169X ZN SUS1 also contains Cr: 0.001 and Si: 0.003

RM ZINC BINARY

cast typical analysis listed in mass %

Number	Mg	Mn	Sb	Zn	Size
41X ZMg1	1.13	.	.	Remainder	40 mm Ø x 15 mm
41X ZMg3	2.80	.	.	Remainder	40 mm Ø x 15 mm
41X ZMn1	.	1.06	.	Remainder	50 mm Ø x 20 mm
41X ZSb1	.	.	1.03	Remainder	40 mm Ø x 15 mm
41X ZSb4	.	.	3.78	Remainder	40 mm Ø x 15 mm
41X ZSb8	.	.	7.68	Remainder	40 mm Ø x 15 mm

ZIRCONIUM ALLOY

* mill certificate given as provisional analysis listed in mass %

Number	Al	Bi	C	Cr	Cu	Fe	H	Hf	Mo	N	Nb	Ni
IARM Zr705 *	0.015	0.0003	0.007	<0.01	<0.0025	0.08	0.0004	1.2	<0.0025	0.003	2.5	0.004
Number	O	P	Si	Sn	Ta	Ti	V	W	Zr	Units		
IARM Zr705 *	0.12	0.0003	0.003	0.004	<0.01	<0.0035	<0.0025	0.002	96	31 mm Ø x 18 mm		

LOW ALLOY STEEL SETTING-UP SETS WITH SOLUBLE/INSOLUBLE VALUES

available in SETS only, as grouped																Sol. = soluble		Ins. = insoluble		typical analysis				35 mm Ø x 20 mm			
Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	Sol.Al	Ins.Al	B	Ca	Sol.N	Ins.N											
KTC-1/4 01	0.0009	0.01	0.001	0.002	<0.01	0.01	0.01	0.01	0.001	.	0.001	<0.001	0.0001	0.0001	.	.											
KTC-1/4 02	0.10	0.21	0.003	0.005	0.61	0.07	0.05	3.99	0.50	.	0.003	0.001											
KTC-1/4 03	0.16	0.76	0.002	0.009	0.40	0.70	0.10	3.24	0.40	.	0.012	<0.001											
KTC-1/4 04	0.20	2.01	0.010	0.016	0.05	0.10	0.52	2.51	0.32	.	0.083	<0.001											
KTC-1/4 05	0.24	1.63	0.013	<0.001	0.26	0.40	1.02	2.04	0.10	.	0.036	0.002	.	0.0002	.	.											
KTC-1/4 06	0.36	1.33	0.049	0.001	0.36	0.50	1.53	1.54	0.20	.	0.020	0.001	0.0005	0.0006	.	.											
KTC-1/4 07	0.51	1.02	0.040	0.029	0.30	0.20	2.05	1.02	0.62	.	0.029	0.001	0.0009	0.0018	.	.											
KTC-1/4 08	0.66	0.50	0.031	0.023	0.16	0.31	2.54	0.51	1.01	.	0.056	<0.001	0.0020	0.0030	.	.											
KTC-1/4 09	0.80	0.31	0.019	<0.001	0.20	0.15	3.26	0.10	0.84	.	0.064	<0.001	0.0038	0.0031	.	.											
KTC-1/4 10	1.05	0.10	0.006	0.022	0.10	0.07	4.06	0.07	0.0050	.	0.090	0.001	0.0088	.	.	.											
KTC-15 N-1	0.015	0.10	0.002	0.003	0.10	.	.	0.21	.	0.050	.	.	.	.	0.0012	0.0001							
KTC-15 N-2	0.014	0.10	0.002	0.003	0.10	.	.	0.29	.	0.048	.	.	.	.	0.0048	0.0002							
KTC-15 N-3	0.012	0.10	0.002	0.003	0.10	.	.	0.19	.	0.048	.	.	.	.	0.0076	0.0003							
KTC-15 N-4	0.012	0.10	0.003	0.004	0.10	.	.	0.20	.	0.048	.	.	.	.	0.0110	0.0002							
KTC-15 N-5	0.012	0.11	0.003	0.004	0.10	.	.	0.41	.	0.050	.	.	.	.	0.0194	0.0008							

Number	As	Co	Nb	Sn	Ti	V	W
KTC-1/4 01	<0.001	0.002	0.001	0.001	0.001	0.001	<0.01
KTC-1/4 02	.	0.010	0.10	0.062	0.021	0.40	.
KTC-1/4 03	0.010	0.15	0.069	0.042	0.10	0.022	.
KTC-1/4 04	0.021	0.050	0.019	0.021	0.31	.	.
KTC-1/4 05	0.044	0.10	0.040	0.010	0.011	0.31	.
KTC-1/4 06	0.062	0.20	0.010	.	0.054	0.052	.
KTC-1/4 07	.	.	.	.	0.20	0.11	0.05
KTC-1/4 08	.	.	.	.	0.16	0.15	0.12
KTC-1/4 09	.	.	.	.	.	0.21	0.22
KTC-1/4 10	.	.	.	.	.	0.50	0.15
KTC-15 N-1	.	.	.	.	.	.	.
KTC-15 N-2	.	.	.	.	.	.	.
KTC-15 N-3	.	.	.	.	.	.	.
KTC-15 N-4	.	.	.	.	.	.	.
KTC-15 N-5	.	.	.	.	.	.	.

LOW ALLOY STEEL SETTING-UP SET

SOLD AS SET/3 ONLY																typical analysis				formerly known as set ST A-C				35 mm Ø x 20 mm			
Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Sol.Al	Ins.Al	Nb	Ti	V	W	As	B	Ca	Co							
KTC-2 A	1.00	0.01	0.002	0.001	0.05	0.11	4.09	.	.	.	0.086	<0.001	0.10	0.36	0.03	0.19							
KTC-2 B	0.01	0.52	0.045	.	0.57	0.69	0.50	3.98	0.20	0.093	.	.	.	0.03	.	.	0.050	0.0085	0.0035	0.01							
KTC-2 C	0.11	1.96	.	0.028	.	.	.	0.50	1.00	.	0.019	0.001	.	.	0.50	.	.	.	.	0.20			

STAINLESS STEEL SETTING-UP SAMPLE SETS

available in SETS only, as grouped																Sol. = soluble		Ins. = insoluble		typical analysis				35 mm Ø x 20 mm			
Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sol.Al	Ins.Al	As	Co	Nb	Ti												
ST I	0.26	0.21	0.008	0.024	0.19	0.01	0.01	26.78	0.046	0.002	0.004	<0.001	0.003	0.013	0.010												
ST H	0.088	0.47	0.009	0.010	0.50	0.04	0.57	17.95	0.49	0.031	0.005	0.011	0.054	0.094	0.094												
ST G	0.031	1.37	0.029	0.005	1.26	0.19	3.87	11.85	1.14	0.086	0.005	0.075	0.19	0.98	0.30												
KTC-5 31	0.068	0.51	0.023	0.005	1.24	0.19	3.91	11.23	0.71	0.10	0.003	0.10	0.19	0.90	0.31												
KTC-5 32	0.040	1.16	0.030	0.007	0.52	0.01	2.56	12.71	1.01	0.013	0.004	0.008	0.014	0.082	0.051												
KTC-5 33	0.044	0.30	0.008	0.022	0.32	0.10	1.03	15.12	1.19	0.031	0.004	0.001	0.10	0.30	0.007												
KTC-5 34	0.084	0.99	0.025	0.004	0.78	0.04	0.48	16.99	0.48	0.045	0.006	0.009	0.051	0.083	0.098												
KTC-5 35	0.22	1.35	0.002	0.029	0.58	<0.01	0.05	24.14	0.029	0.057	0.007	<0.001	0.005	0.007	0.005												
KTC-5 36	0.15	0.43	0.014	0.009	0.14	<0.01	0.11	22.31	0.043	0.001	0.008	<0.001	0.003	0.001	0.005												
KTC-5 37	0.11	0.74	0.007	0.019	0.99	<0.01	0.20	19.51	0.20	0.001	0.002	<0.001	0.002	<0.001	0.003												
KTC-5 38	0.30	0.19	0.010	0.013	0.40	<0.01	0.01	25.52	0.004	0.001	0.002	<0.001	0.002	<0.001	0.003												

ALUMINUM IN XRF DISCS

typical analysis

30-40 mm ø x 5 mm

Table with 20 columns: Number, Al2O3, As2O3, B2O3, BaO, Bi2O3, CaO, Fe2O3, GeO2, K2O, MgO, MoO3, Na2O, P2O5, PbO, Sb2O3, SiO2, TiO2, V2O5, WO3. Includes data for BR CH1, SV C, BR PC 3, BR CS1, BR CH2/1, BR ACEM, FLX PR3, and FLX S7.

Table with 20 columns: Number, CdO, Ce2O3, Cr2O3, La2O3, MnO, Mn2O3, Nb2O5, Nd2O3, NiO, Pr2O3, Rb2O, SO3, SrO, U3O8, ZrO2. Includes data for BR CH1, SV C, BR PC 3, BR CS1, BR CH2/1, BR ACEM, FLX PR3, and FLX S7.

ANTIMONY AND ARSENIC IN XRF DISC

typical analysis

40 mm ø x 6 mm

Table with 10 columns: Number, As2O3, CaO, Co3O4, K2O, MnO, MoO3, Na2O, Sb2O3, SiO2. Includes data for FLX K04.

BARIUM IN XRF DISCS

typical analysis

40 mm ø x 5 mm

Table with 20 columns: Number, BaO, SiO2, TiO2, Al2O3, As2O3, B2O3, CaO, CeO2, Cr2O3, CuO, Fe2O3, K2O, MgO, Na2O, PbO, Sb2O3, SrO, ZnO, ZrO2. Includes data for BR M 1, BR 7/L, BR 4/L, and BR BG18.

BORON IN XRF DISCS

typical analysis

30-40 mm ø x 5 mm

Table with 21 columns: Number, B2O3, Al2O3, As2O3, CaO, CdO, Cr2O3, Fe2O3, K2O, MgO, MnO, Na2O, NiO, P2O5, PbO, SO3, Sb2O3, SiO2, SnO, SnO2, TiO2, ZnO. Includes data for BR AN1/1, BR DSH2, BR DSH1, FLX PR2, BR WR2, BR BP2, BR MM1, BR WR1, BR OS1, SV D, BR DS1, BR AX3, BR PD 3, BR U 30, BR WIE3/II, BR KA1, BR WIE3/I, and BR ARL2.

Table with 20 columns: Number, Ag2O, BaO, Bi2O3, CuO, CeO2, Ce2O3, Cl, Ga2O3, GeO2, In2O3, La2O3, Nb2O5, MoO, MoO3, Se, SrO, Ta2O5, Te2O3, V2O5, WO3, ZrO2. Includes data for BR AN1/1, BR DSH2, BR DSH1, FLX PR2, BR WR2, BR BP2, BR MM1, BR WR1, BR OS1, SV D, BR DS1, BR AX3, BR PD 3, BR U 30, BR WIE3/II, BR KA1, BR WIE3/I, and BR ARL2.

HIGH SILICA IN XRF DISCS

typical analysis														40 mm Ø x 5-6 mm		
Number	SiO ₂	Al ₂ O ₃	BaO	Bi ₂ O ₃	CaO	Cl	K ₂ O	Fe ₂ O ₃	K ₂ O	Na ₂ O	SO ₃	Sb ₂ O ₃	SrO	TiO ₂		
ASO TU1	99.99	0.005	.	.	0.005	.	.	<0.01	.	0.005	.	.	.	.	.	last of stock
FLX Q0	99.99	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BR K 1/3	99.5	0.17	.	.	0.02	0.05	.	0.02	0.07	0.10	0.04	.	.	0.02	.	.
ASO TU7	61.2	.	0.5	8.4	.	0.6	10.0	.	.	17.0	.	0.14	0.25	2.0	.	last of stock

TIN and TITANIUM IN XRF DISC

typical analysis					
Number	SnO	TiO ₂	NiO	ZrO ₂	Units
ASO TU19	46.5	35.0	2.0	16.0	38-40 mm Ø x 5-8 mm last of stock

CRM URANIUM IN XRF DISCS

typical analysis listed in mg/kg 12 mm Ø x 5 mm

Number	U
IRMM 540R	15.0
IRMM 541	49.4

URANIUM IN XRF DISCS

typical analysis

30-40 mm Ø x 5 mm

Number	UO ₃	U ₃ O ₈	Al ₂ O ₃	As ₂ O ₃	B ₂ O ₃	BaO	CaO	CdO	CoO	Cr ₂ O ₃	CuO	F	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	NiO	P ₂ O ₅	SiO ₂	Sb ₂ O ₃	TiO ₂	ZnO
SV F	1.0	.	2.0	.	3.0	0.3	3.0	.	0.5	.	.	4.0	.	29.3	1.0	.	1.0	.	.	58.23	1.0	1.0	0.2
SV E	0.5	.	1.5	0.5	6.0	3.0	5.0	.	1.0	4.0	1.0	0.8	.	2.5	.	5.0	15.0	0.5	.	50.9	.	.	2.0
BR AS1	0.01	.	15.8	0.44	3.22	.	0.83	0.39	.	0.15	.	0.17	1.16	2.16	3.20	20.3	0.13	.	0.58	38.9	.	3.9	7.4
BR U 26	.	1.0	1.5	.	.	0.1	6.5	.	.	.	.	1.0	0.07	3.0	.	.	13.3	.	.	69.98	0.25	.	1.0
BR U 21	.	0.40	2.0	.	10	.	6.5	1.5	0.25	0.6	1	.	0.05	5.8	0.05	0.15	10.0	0.15	.	60.0	0.25	.	.
BR EK01	.	0.10	.	0.13	0.74	2.24	4.96	0.02	0.38	1.17	0.63	.	.	6.82	.	.	8.54	0.64	.	67.05	0.44	.	3.73
BR U 25	.	0.10	3.0	.	.	.	6.9	.	.	0.27	0.18	.	0.34	2.9	0.15	6.0	9.3	.	.	69.3	0.20	.	0.8
BR CH1	.	0.1	28.0	0.8	20.0	1.0	.	0.15	.	.	.	.	7.0	8.0	.	0.5	6.5	0.3	14.0	9.11	.	0.1	.

Number	Bi ₂ O ₃	CeO ₂	Cs ₂ O	Ga ₂ O ₃	GeO ₂	In ₂ O ₃	La ₂ O ₃	MoO ₃	Nb ₂ O ₅	Nd ₂ O ₃	PbO	Pr ₂ O ₃	Rb ₂ O	SO ₃	SeO ₂	SnO	SrO	Ta ₂ O ₅	TeO ₂	ThO ₂	V ₂ O ₅	WO ₃	ZrO ₂
SV F	.	0.5	.	0.1	.	.	0.5	.	0.5	0.6	.	0.15	.	.	.	1.0	0.12	.	.	.	.	.	1.0
SV E	0.5	0.3	.	.	.	.	.	.
BR AS1	.	.	0.04	.	0.08	0.04	.	.	.	.	0.5	.	0.04	.	.	0.71	.	0.04	0.04	0.01	.	.	0.15
BR U 26	.	2.0	.	.	.	.	.	.	.	.	.	.	.	0.2	0.14	.	.	.	.	.	.	.	.
BR U 21	.	0.15	.	.	.	.	.	.	.	.	.	.	.	0.15	0.02	.	.	.	.	.	.	.	.
BR EK01	0.30	.	.	0.65	.	.	.	.	0.57	.	.	.	.	0.89	.	.
BR U 25	0.12	.	.	.	.	.	.	.	.	.
BR CH1	1.0	.	.	.	0.3	.	.	.	0.7	0.5	.	0.4	0.04	.	.	.	.	.	.	.	0.3	1.2	.

ZINC AND ZIRCONIUM IN XRF DISCS

typical analysis

40 mm Ø x 5-6 mm

Number	ZnO	ZrO ₂	SiO ₂	Al ₂ O ₃	B ₂ O ₃	BaO	Bi ₂ O ₃	CaO	Cr ₂ O ₃	CdO	Co ₂ O ₃	F	Fe ₂ O ₃	K ₂ O	Li ₂ O	MgO	MnO ₂	Na ₂ O
BR TL2	.	30	10	0.5	9.3	.	.	.	.	.	.	.	0.1	15	5	.	.	15
BR N 1	80.2	.	0.2	.	.	.	4.5	.	1.6	.	1.9	.	.	.	.	.	0.7	.
FLX F1	12.92	.	65.81	2.14	.	.	.	1.62	.	0.181	.	2.57	0.116	0.781	.	.	.	13.53
FLX SP2	2.50	2.17	44.75	.	20.0	5.35	.	.	.	3.71	.	.	.	.	.	18.42	.	.

Number	NiO	P ₂ O ₅	PbO	Sb ₂ O ₃	SO ₃	TiO ₂
BR TL2	.	0.1	10	.	.	5
BR N 1	0.7	.	.	9.3	.	0.9
FLX F1	.	.	.	.	0.264	.
FLX SP2	.	.	4.65	.	.	.

GEOLOGICAL POWDER SETTING-UP SAMPLES

analysis in mass % Data Sheet shows two lists of analytical results, no uncertainties 100 g powder

Number	Al ₂ O ₃	Ba	CaO	Cu	F	T.Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	Pb	S	SiO ₂	TiO ₂	W	Zn
US GXR-6	33.4	0.13	0.25	0.0066	0.022	7.98	2.25	1.01	0.13	0.14	0.08	0.0101	0.016	46.68	0.83	0.00019	0.0118
US GXR-2	31.10	0.224	1.30	0.0076	0.045	2.66	1.65	1.41	0.13	0.75	0.24	0.069	0.0313	47.54	0.5	0.00019	0.053
US GXR-3	12.1	0.50	19.0	0.0015	8.62	27.2	0.88	1.34	2.88	1.13	0.25	0.0015	0.232	13.36	0.17	1.07	0.0207
US GXR-1	6.64	0.068	1.34	0.111	0.126	33.8	0.06	0.36	0.11	0.07	0.15	0.072	0.26	48.57	0.06	0.0164	0.076

continued analysis in mg/kg

Number	Ag	As	Au	B	Be	Bi	Br	Cd	Ce	Cl	Co	Cr	Cs	Hg	La
US GXR-6	1.3	330	0.095	9.8	1.4	0.29	1.4	1	36	.	13.8	96	4.2	0.068	13.9
US GXR-2	17	25	0.036	42	1.7	0.7	3.2	4.1	51.4	.	8.6	36	5.2	2.9	25.6
US GXR-3	2.4	3970	.	160	26	16	.	0.3	18	.	43	19.3	175	0.33	8.8
US GXR-1	31	401	3.4	15	1.22	1380	0.5	3.3	17	136	8.2	13	3	3.9	7.5

Number	Li	Mo	Ni	Rb	Sc	Se	Sn	Sr	Te	Th	U	V	Y	Zr	Type
US GXR-6	32	2.4	27	90	27.6	0.94	1.7	35	0.018	5.3	1.54	186	14	110	Soil
US GXR-2	54	2.1	21	78	6.88	0.61	1.7	160	0.69	8.8	2.9	52	17	269	Soil
US GXR-3	114	6.6	60	92	16.8	0.15	.	950	0.009	2.94	3	42	15	63	Tungsten Ore
US GXR-1	8.2	18	41	14	1.58	16.6	55	259	13	2.44	33	76	32	38	Jasperoid

AUSMON XRF DRIFT MONITORS (wavelength dispersive XRF)

The monitors listed below have been formulated so that they have appropriate count rates for different ores and products. The monitors contain little flux and most have been in use for many years and have given excellent stability.

The monitor discs are 32 or 40mm diameter and about 4mm high. The monitors are polished flat so that they can be mounted precisely and are easily cleaned. The following types for wavelength dispersive XRF are available:

AUSMON Bauxite

Suitable with bauxites and other materials with high Aluminum and contain **Fe, Si, Al, Ca, F, Na, Mg, P, S, Cl, K, Ti, V, Cr, Mn, Co, Ni, Cu, Zn, As, Br, Sn, and Ga.** (24 elements)

AUSMON Cement A

Suitable when making detailed analyses of cements or other materials with high Calcium and contain **Ca, Si, Al, Mg, Fe, Na, Cl, S, F, P, K, Ti, Cr, Mn, Zn, Sr, Br, Ba, and Pb.** (19 elements)

AUSMON Cement B

This 40mm monitor has fewer trace elements than Cement A and is designed for on line analysis using wavelength or energy dispersive spectrometers. It contains **Na, Mg, Al, Si, P, Cl, K, Ca, and Fe.** (9 elements)

AUSMON Iron Ore

Suitable with iron ores and related materials, containing **Fe, Si, Al, Ca, F, Na, Mg, P, S, Cl, K, Ti, V, Cr, Mn, Co, Ni, Cu, Zn, As, Br, Sn, Cd, Sb, Bi, Mo, Ba, and Pb.** (28 elements)

AUSMON Manganese Ore

Suitable with manganese ores and contain: **Mn, Fe, Si, Na, Mg, Al, P, K, Ca, Ti, V, Sr, Br, Ba, and Pb.** (15 elements)

AUSMON Mineral Sands

Suitable with mineral sand products, including but not limited to ilmenite, rutile, zircon, monazite and xenotime. The following elements are present: **Ti, Fe, Zr, Si, Y, La, Ce, Nd, Pr, Yb, P, F, Na, Mg, Al, S, Cl, K, Ca, Sc, V, Mn, Cr, Co, Ni, Cu, Zn, Br, As, Sr, Nb, Mo, Cd, Sn, Ba, Hf, Pb, Th, and U.** (39 elements)

AUSMON Nickel Ore

Suitable with nickel ores and related materials, containing **Ni, Fe, S, Si, F, Na, Mg, Al, P, Cl, K, Ca, Ti, Mn, Cr, Co, Cu, Zn, As, Se, Br, Mo, Ag, Pb, and Bi.** (25 elements)

AUSMON Rare Earths

Suitable with monazite, xenotime and other rare earth minerals for the rare earth oxides. The following elements are present: **La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Y, P, F, Na, Mg, Al, Si, S, Cl, K, Ca, Sc, Ti, Mn, Fe, Ni, Br, Sr, Zr, Nb, Ba, Hf, Pb, Th, and U.** (39 elements)

AUSMON Silicates

These monitors were designed for the analysis of rocks, soils and related materials. They can also be used as general purpose monitors for a wide range of materials, eg. vegetables, etc. They contain the following elements as majors: **Fe, Mn, Ti, Ca, K, Cl, S, P, Si, Al, Mg, Na and F.** In addition about 2000ppm of each of the following are present: **Sc (1000ppm), V, Cr, Co, Cu, Ni, Zn, Ga, Ge, Se, As, Rb, Sr, Br, Y, Zr, Nb, Mo, Ag, Cd, Sn, Sb, Te, Cs, Ba, La, Ce, Nd, Pr, Gd, Sm, Yb, Hf, Ta, W, Bi, Tl, Pb, Th, and U.** (53 elements)

AUSMON Sulfides

These monitors are for use with lead, zinc, iron and copper sulphides, as ores, concentrates and related products. They contain: **Pb, Zn, Fe, Cu, S, F, Na, Mg, Al, Si, P, K, Ca, Cl, Ti, Co, Ni, Cr, Mn, As, Sr, Se, Ag, Cd, Sn, Sb, Ba, Te, Tl, Mo, U, and Bi.** (32 elements)

AUSMON XRF DRIFT MONITORS (energy dispersive XRF)

The monitors listed below have been formulated so that they have appropriate count rates for different ores and products. The monitors contain little flux and most have been in use for many years and have given excellent stability.

The monitor discs (except AUSMON Cement B) are 32mm diameter and about 4mm high. The monitors are polished flat so that they can be mounted precisely and are easily cleaned. The following types for energy dispersive XRF are available:

AUSMON MCACAL

Intended for the energy dispersive XRF system, this monitor contains the following elements: **F, Na, Mg, Si, Cl, Ca, V, Zn, As, Fe, Y, Mo, Cd, Ba.** (14 elements)

AUSMON Mon A

This is intended as a drift monitor with the following elements: **Mg, Si, P, W, Pb, Sn.** (6 elements)

AUSMON Mon B

This is a drift monitor with the following elements: **Na, Al, Si, Ca, Ti, Cr, and Ni.** (7 elements)

AUSMON Cement B

This 40mm monitor has fewer trace elements than Cement A and is designed for on line analysis using wavelength or energy dispersive spectrometers. It contains **Na, Mg, Al, Si, P, Cl, K, Ca, and Fe.** (9 elements)

AUSMON SPECIALS

Monitor discs can be made to suite needs not covered by the above. Very often this is for laboratories performing analysis on materials that do not have long term stability and so they cannot use a similar product as a monitor, eg aqueous liquids or liquids from the petroleum industry. Cl in brine, Ca in milk, Cl, Br, and trace elements in synthetic rubbers are some common examples for which custom monitors have been made.