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PURITY ALUMINUM SETTING-UP SAMPLES

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

Number	Si	Ag	As	B*	Ba*	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
AL RC11/06	0.025	0.010	0.003	.	40	0.002	0.010	0.0023	0.0050	0.002	0.011	0.010	0.015	0.048
PY 60548	<0.01	<0.001	.	.	.	<0.001	<0.001	<0.001	<0.001	.	<0.001	<0.001	<0.01	<0.01
R A 10	<0.0020	<0.0005	.	<5	.	<0.0001	<0.0020	<0.0005	<0.0010	.	<0.0010	<0.0010	<0.0010	<0.0010
AL RC10/02	<0.002	<0.0002	.	<2	<1	<0.0001	<0.0002	<0.0001	<0.0002	.	<0.0002	<0.0002	<0.0002	<0.001
IARM 220G	0.0014	<0.00001	.	5.7	2.2	<0.00001	<0.00001	0.000010	<0.00001	.	<0.00001	0.000030	0.0027	0.0021
KUT Al 4N	0.0013	.	.	0.6	.	0.00001	0.00001	0.00002	0.0001	.	.	0.00006	0.0025	0.0018
V E10	<0.0010	<0.00005	.	<2	<3	<0.00002	<0.0003	<0.0001	<0.0001	.	<0.0001	<0.0001	<0.0004	<0.0005
V E1/0	<0.0005	<0.00001	.	<2	<1	<0.00001	<0.00005	<0.0001	<0.00002	.	<0.00001	<0.00005	<0.0004	<0.0003
V E0	<0.00008	<0.00001	.	<0.4	<0.1	<0.00001	<0.00002	<0.00004	<0.00002	.	<0.00001	<0.00003	<0.00004	<0.00005
AA SQ-10	.	.	.	.	.	.	.	.	.	.	.	.	.	.
C Fe 0	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Number	Ga	Hg	In	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc
AL RC11/06	<0.001	0.005	0.010	0.010	<0.0001	0.018	0.016	0.067	0.002	0.010	0.0026	0.015	0.013	0.010
PY 60548	<0.0010	.	.	.	<0.001	<0.001	<0.001	.	<0.001	<0.001	.	<0.001	<0.001	.
R A 10	<0.0010	.	.	.	<0.0010	<0.0010	<0.0010	.	<0.0001	<0.0020	.	<0.0010	<0.0020	.
AL RC10/02	<0.0002	.	<0.0002	.	<0.0001	<0.0003	<0.0002	.	<0.0001	0.0002	<0.0005	<0.0003	<0.0003	.
IARM 220G	0.00005	.	<0.00001	.	<0.00001	0.00087	0.00023	.	0.000030	0.000060	.	0.000015	0.000010	.
KUT Al 4N	<0.0001	.	.	.	0.00002	0.0015	0.0002	.	0.0001	0.00004	.	0.0001	0.0002	.
V E10	<0.00002	.	<0.00002	.	<0.00002	<0.0003	<0.0001	.	<0.0001	<0.0001	.	<0.0002	<0.0003	.
V E1	<0.00001	.	<0.00001	.	<0.00001	<0.0003	<0.00005	.	<0.0001	<0.00005	.	<0.00005	<0.0001	.
V E0	.	.	<0.00001	.	<0.00001	<0.00006	<0.00002	.	<0.00002	<0.00001	.	<0.00001	<0.00002	.
AA SQ-10	.	.	.	.	.	.	.	.	.	.	.	.	.	.
C Al 0	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Number	Sn	Sr	Ti	V	W	Zn	Zr	Units
AL RC11/06	0.015	0.006	0.016	0.018	0.0057	0.019	0.017	60 mm Ø x 25 mm
PY 60548	<0.001	<0.001	<0.001	<0.001	.	<0.001	<0.001	60 mm Ø x 40 mm
R A 10	<0.0010	<0.0010	<0.0010	<0.0010	.	<0.0010	<0.0010	50 mm Ø x 50 mm
AL RC10/02	<0.0002	<0.0001	0.0004	<0.0002	.	<0.0005	<0.0002	60 mm Ø x 25 mm
IARM 220G	<0.00001	<0.00001	<0.002	0.00052	.	0.0003	0.000088	57 mm Ø x 38 mm
KUT Al 4N	0.00005	0.0001	0.00006	0.0001	.	0.0003	0.00005	50 mm Ø x 35 mm
V E10	<0.0003	<0.00005	<0.0001	<0.0002	.	<0.0003	<0.0001	60 mm Ø x 40 mm
V E1	<0.00002	<0.00005	<0.0001	<0.00003	.	<0.0002	<0.00005	60 mm Ø x 40 mm
V E0	<0.00002	<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

Al: 99.96

many more elements

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

SPECIALTY ALUMINUM 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

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

COBALT BASE SETTING-UP SAMPLES

typical analysis T = trace, such as "<0.005" or "<0.01"

~35 mm Ø x ~25-35 mm

Number	Al	B	C	Cr	Cu	Fe	Mn	Mo	Nb	Ni	P	S	Si	Ta	Ti	V	W	Zr
R Co 16	0.3	0.02	0.2	0.04	1	21	0.03	3	2	<0.01	<0.01	<0.01	0.2	0.05	0.6	0.7	(0.01)	.
R Co 15	0.05	.	0.8	0.3	2	22	.	8	2	0.1	0.03	0.06	0.9	0.08	.	0.1	0.1	.
R Co 14	0.03	0.04	0.46	28.6	.	0.87	0.35	.	.	10.1	0.003	<0.01	0.64	.	.	<0.01	6.8	.
R Co 11	T	.	T	T	T	T	T	T	T	T	T	.	T	.	T	T	T	T

COPPER BASE SETTING-UP SAMPLES

typical analysis listed in mass %

Number	Cu	Sn	Zn	Al	Bi	Cr	Fe	Mn	Ni	Pb	Si	Ag	As	Au	Be
COPPER															
R C 11	99.98	<0.0030	<0.0005	.	<0.0010	<0.0005	<0.0005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	.	.
BS SU Cu1	99.96	0.0001	0.0001	0.0001	.	0.0001	0.0002	0.0001	0.0002	0.0001	0.0001	0.0012	0.0001	.	0.0001
R C 20	99.9	.	.	.	.	.	.	.	.	.	.	.	.	.	.
R C 110	Rem	0.006	0.006	0.002	0.004	0.004	0.005	0.004	0.002	0.003	0.003	0.005	0.001	0.002	0.0002
R C 14	98.8	<0.01	<0.002	<0.01	<0.01	0.9	0.03	<0.01	<0.01	<0.01	<0.02	.	<0.01	.	.
C Cu 2	.	0.2180	0.1150	.	0.0090	0.0110	0.0227	0.0113	0.4220	0.3710	.	0.4930	.	0.0047	.
C Cu 3	.	.	.	.	.	.	.	.	.	.	.	.	0.0875	.	.
R C 38	67	0.01	0.01	0.01	<0.01	<0.001	0.7	1.0	31	<0.001	0.03	<0.01	0.03	.	.
BRASS															
BS SU 464	[60.3]	0.73	38.8	.	.	.	0.05	.	0.007	0.04	0.004	.	0.001	.	.
R C 32	59.4	0.17	34.8	1.57	<0.01	<0.01	0.18	1.79	0.75	0.82	0.41	0.001	0.02	.	.
BRONZE															
R C 12	Rem	0.21	0.19	0.13	0.009	0.04	0.10	0.08	0.04	0.09	0.08	0.06	0.09	(0.002)	0.002
165X PB10SUS	Rem	11	0.05	0.001	0.02	0.001	0.002	<0.001	0.06	0.04	0.001	.	0.02	.	.
BS SU 932A	83.5	6.88	2.29	.	0.003	.	0.008	0.002	0.19	6.9	0.011	0.0198	0.047	.	.
BS SU 932B	83.1	6.15	2.77	.	.	.	0.05	0.0005	0.52	7.1	0.004	0.0006	0.016	.	.
BS SU 936	82.5	7.0	0.25	0.001	.	.	0.003	0.001	0.36	9.6	0.004	.	0.002	.	.
BS SU 936A	82.5	7.0	0.24	0.0003	.	.	0.0007	0.0006	0.35	9.7	0.004	.	0.004	.	.
BS SU 932	82.1	7.28	2.80	.	0.002	.	0.03	0.002	0.19	7.4	0.015	0.0107	0.049	.	.
BS SU 936B	81.0	7.5	0.54	<0.005	.	<0.005	0.006	<0.001	0.51	10.2	0.003	.	0.01	.	.
R C 40	Rem	<0.01	<0.01	8	.	.	<0.01	1.5	5.5	2	0.02	.	<0.01	.	.
165X ALB1 SUS	82	0.03	0.06	9.0	0.015	0.01	2.8	0.08	5.3	0.20	0.10	.	0.005	.	.
R C 33	80.7	0.02	0.02	9.9	0.005	<0.01	3.9	0.59	4.8	<0.01	0.02	<0.001	0.02	.	<0.001
R C 36	76	7.4	1.0	<0.005	0.01	<0.001	0.03	<0.005	1.6	14	<0.005	0.015	0.009	.	<0.001
BS SU 863	62.7	0.031	27.1	4.87	.	0.0005	2.3	2.85	0.06	0.040	0.025	.	<0.005	.	.

Number	C	Ca	Cd	Co	Mg	O	P	S	Sb	Se	Te	Ti	Zr	Units
COPPER														
R C 11	.	.	<0.0001	<0.0010	<0.0001	(0.0010)	<0.0005	<0.0001	<0.0010	<0.0001	<0.0010	.	.	40 mm Ø x 40 mm
BS SU Cu1	0.0003	0.0001	.	0.0001	0.0001	0.0300	0.0001	0.0003	0.0001	.	0.0001	.	.	45 mm Ø x 40+ mm
R C 20	.	.	.	.	.	0.038	.	.	.	.	.	.	.	40 mm Ø x 40 mm
R C 110	.	.	0.003	0.003	0.003	.	0.003	0.004	0.006	0.005	0.007	0.001	<0.002	40 mm Ø x 40 mm
R C 14	.	.	.	.	.	.	<0.01	.	.	.	.	.	0.05	40 mm Ø x 40 mm
C Cu 2	.	.	.	.	.	.	.	0.2830	.	.	.	.	last	40 mm Ø x 30 mm
C Cu 3	.	.	0.0096	0.0496	.	.	0.0229	.	0.0475	0.0194	.	.	last	40 mm Ø x 30 mm
R C 38	.	.	<0.01	<0.01	<0.001	.	<0.01	<0.001	0.01	.	.	.	<0.001	40 mm Ø x 40 mm
BRASS														
BS SU 464	0.0006	.	0.001	<0.01	.	0.0009	0.005	0.001	0.006	.	.	.	.	38 mm Ø x 40 mm
R C 32	.	.	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 40 mm
BRONZE														
R C 12	.	.	0.05	0.05	0.002	.	0.09	0.04	0.01	(0.02)	(0.04)	(0.002)	0.002	40 mm Ø x 40 mm
165X PB10SUS	.	.	.	0.01	.	.	0.002	0.03	0.15	0.01	.	.	.	~42 mm Ø x ~18 mm
BS SU 932A	0.001	.	.	.	.	.	0.007	0.053	0.15	.	.	.	.	38 mm Ø x 40+ mm
BS SU 932B	0.002	.	.	.	.	.	0.008	0.046	0.19	.	.	.	.	38 mm Ø x 40+ mm
BS SU 936	0.0008	.	.	0.009	.	0.003	0.07	0.007	0.10	.	.	.	.	50 mm Ø x 19 mm
BS SU 936A	0.009	.	.	0.008	.	0.0037	0.031	0.007	0.13	.	.	.	.	50 mm Ø x 19 mm
BS SU 932	0.002	.	.	.	.	.	0.008	0.051	0.13	.	.	.	.	38 mm Ø x 40+ mm
BS SU 936B	<0.05	.	0.01	.	.	0.01	0.03	0.03	0.14	.	.	.	.	38 mm Ø x 40+ mm
R C 40	.	.	.	.	<0.01	.	<0.01	.	.	.	.	.	.	40 mm Ø x 40 mm
165X ALB1 SUS	.	.	.	0.04	.	.	0.015	.	.	.	.	.	.	40 mm Ø x 18 mm
R C 33	.	.	<0.005	<0.01	<0.001	.	0.02	<0.005	<0.001	.	.	<0.01	<0.001	40 mm Ø x 40 mm
R C 36	.	.	<0.001	<0.001	<0.001	.	<0.01	0.04	0.23	.	.	<0.001	<0.001	40 mm Ø x 40 mm
BS SU 863	0.002	.	.	<0.005	<0.005	.	0.0081	0.0003	0.009	.	.	.	<0.005	38 mm Ø x 40+ 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	30	2.2	2.6	0.07	0.10	0.02	1.5	<0.001	<0.01	0.002	.	.	.	0.08
R Pb 17	3.5	14	2.1	0.14	0.13	<0.001	2.0	<0.001	<0.0005	0.001	<0.001	0.01	<0.001	<0.01
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
R Pb 13	0.17	0.18	0.04	0.04	0.23	0.03	0.11	.	<0.0001	0.002	.	0.03	0.02	0.11
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
R Pb 16	0.11	<0.001	0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.0005	<0.0001	<0.0005	.	<0.001	<0.001
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	<0.0005	12	0.008	1.4	0.02	0.002	0.07	<0.001	<0.001	<0.001	0.016	<0.002	.	<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
R Pb PM	.	.	0.0100

Number	Sn	Sb	Ag	As	Bi	Cd	Cu	Fe	In	Ni	S	Te	Tl	Zn
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continued

R Pb: 40 mm Ø x 30 mm

168X: ~45-50 mm Ø x ~20-40 mm

Number	Al	Au	Ba	Ca	Co*	Cr*	Ge	Hg	Ir*	Mg*	Mn*	Na	Pd	Pt	Rh*	Ru*	Se
R Pb 15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
R Pb 17	0.01	(0.002)	.	.	<30	<10	(0.001)	.	.	.	<10	.	(0.001)	(0.001)	.	.	.
168X Pb SUS1	.	0.001	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.01
R Pb 13	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.004
168X Pb SUS6	.	0.001	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.003
R Pb 16	0.04	.	(0.01)	0.19	.	.	.	.	(10)	.	<0.001	.	.	.	.	.	.
R Pb 18	<0.0001	.	.	<0.0001	<1	1	.	.	.	.	<10	.	.	.	.	.	(0.01)
R Pb 14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
R Pb 11	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
R Pb PM	.	0.0100	3	.	.	.	0.0050	0.0050	50	50	.

Number	Al	Au	Ba	Ca	Co*	Cr*	Ge	Hg	Ir*	Mg*	Mn*	Na	Pd	Pt	Rh*	Ru*	Se
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MAGNESIUM BASE SETTING-UP SAMPLES

cast typical analysis listed in mass %

Number	Al	Cd	Cu	Fe	Mg	Mn	Ni	Pb	Si	Sn	Zn	Zr
R Mg 17	7.5	<0.01	<0.01	0.009	Rem	0.2	0.001	.	0.04	0.03	0.4	<0.001
R Mg 13 *	5.7	0.0001	0.006	0.001	Rem	0.2	0.001	0.001	0.01	0.001	0.8	0.004
C Mg 2 *	5.7	0.0001	0.006	0.001	Rem	0.2	0.001	0.001	0.01	0.001	0.8	0.004
58A ST6420	3.37	1.39	0.02	0.0048	Rem	0.079	(0.0019)	.	0.026	.	0.324	.
166X MG SUS3	0.4	0.005	0.07	<0.005	Rem	0.8	0.02	0.04	0.01	0.005	0.09	.
R Mg 11	0.022	.	<0.003	<0.004	99.9	0.022	<0.005	.	0.037	.	<0.005	.
58A ST7310	0.004	.	1.64	0.0098	Rem	0.967	0.002	.	0.025	.	7.2	.
R Mg 16	.	.	.	0.001	Rem	.	.	.	.	.	.	0.06

continued

* currently R Mg 13 and C Mg 2 have the same chemistry

Number	Ag	Be	Ce	Na	Nd	P	Pr	Ti	Y	Units
R Mg 17	.	.	.	<0.001	.	.	.	.	.	50 mm Ø x 50 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
58A ST6420	45 mm Ø x 25 mm
166X MG SUS3	0.02	0.0005	.	.	<0.001	.	<0.001	.	.	~50 mm Ø x ~20 mm
R Mg 11	50 mm Ø x 40-50 mm
58A ST7310	45 mm Ø x 25 mm
R Mg 16	.	.	2.2	.	1.6	.	0.26	.	2.2	50 mm Ø x 40 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	>99.9	<0.001	<0.005	<0.001	.	<0.001	0.02	.	.	.	.	<0.001	<0.002	.	.
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	.
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	0.01	0.20	0.2	0.8	0.3	18	0.25	0.2	0.2	<0.01	<0.01	0.32	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	52.6	0.5	0.02	0.2	18.8	0.06	18.2	0.11	2.9	5.2	<0.01	<0.01	0.11	0.9	0.2
R Ni 14	50.5	0.5	0.05	19.4	20.9	0.01	0.3	0.2	5.2	.	0.01	<0.01	0.05	2.2	0.1

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
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	.	0.02	.	.	.	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	.	.	.	<0.01	0.09	0.02	40 mm Ø x 40 mm
R Ni 14	0.5	0.003	.	.	.	.	<0.01	0.01	40 mm Ø x 40 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	0.32	0.11	0.97	<0.01	35	1.6	0.20	<0.001	.	0.17	0.001	.
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	0.12	<0.001	.	.	.	.	.	0.02	0.02	40 mm Ø x 40 mm
R Sn 14	.	.	0.05	.	.	.	.	.	.	40 mm Ø x 40 mm

last

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	<0.01	0.03	2	.	2	.	4										

ZINC BASE SETTING-UP SAMPLES

typical analysis										169X, 1690X: 50 mm Ø x 20 mm										C: 40 mm Ø x 30-40 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 14	87	<0.001	9.8	.	0.02	2.8	0.06	<0.005	0.10	0.02	<0.005	0.05	<0.001	0.04	0.03	<0.005																							
C Zn 3/4	.	.	3.93	.	0.001	0.071	0.016	.	0.055	.	.	0.0056	.	0.001	.	.																							
C Zn 3/3	.	.	3.92	.	0.0001	0.064	0.0106	.	0.046	.	.	0.0054	.	0.0010	.	.																						last	
C Zn 4/8	.	.	0.93	.	0.10	0.51	.	.	.	.	.	1.26	.	0.99	.	.																					
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 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																							
R Zn 15	Rem.	.	0.20	.	0.5	0.23	0.2	.	.	0.01	.	0.14	0.03	0.05	.	.																							
R Zn 16	.	.	0.23	.	0.049	0.011	0.092	.	.	.	.	0.23	.	0.009	.	.																					
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 11	99.99	.	<0.0005	.	<0.0005	<0.0005	<0.0005	.	<0.0005	<0.0005	<0.0005	<0.0005	.	<0.0005	<0.0010	.																							

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

RM ZINC BINARY

cast typical analysis listed in mass %

Number	Mn	Sb	Zn	Size
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

CAST IRON SETTING-UP SAMPLES

chill cast typical analysis

Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	Nb	Sn	Ti	V	W	Mg	Ce
C Fe 5	4.12	0.2	0.09	0.03	0.36	0.08	0.08	0.11	0.11	0.05	<0.0015	0.003	0.02	0.13	.	.	.
NCS AH11355a	4.07	0.220	0.054	0.041	1.45	0.266	1.46	2.12	0.724	0.073	0.022	0.146	0.042	0.090	0.039	0.0024	(0.0006)
SUS 5/56	3.8	0.59	.	0.018	2.0	0.003	1.00	0.01	.	0.04	.	0.07	0.009	0.52	.	0.10	0.03
SUS 2/49	3.7	0.74	0.23	0.12	1.9	0.20	0.48	0.07	0.11	0.01	.	0.10	0.06	0.55	.	.	.
C Fe 7	(3.7)	0.07	0.015	0.005	3.15	0.14	0.05	0.03	<0.01	0.015	.	0.003	0.010	0.018	.	0.035	.
SUS GGG	3.45	0.18	0.02	0.005	2.35	0.088	0.022	0.045	.	0.004	.	.	.	.	.	0.035	.
R G 13+Se	3.4	1.0	0.6	0.06	2.1	0.7	0.5	1.0	0.3	0.05	<0.01	0.3	0.03	0.3	0.01	.	.
SUS 3/21	3.4	0.90	1.0	0.10	2.2	0.01	0.01	0.25	<0.005	<0.005	.	<0.005	0.11	0.27	.	.	.
R G 13	3.3	0.9	0.4	0.05	2.2	0.5	0.5	1.1	0.3	0.05	.	0.3	0.02	0.3	0.01	.	.
R G 14	3.3	0.2	0.06	<0.01	2.0	0.06	1.1	1.0	.	0.03	.	0.2	<0.01	0.1	.	0.04	0.02
BS SU CCD	3.28	0.59	0.020	0.008	2.53	0.050	0.020	0.030	0.002	0.015	.	0.002	0.006	0.014	.	0.032	.
C Fe 8	3.2	0.42	0.025	0.02	1.3	0.062	0.11	0.05	<0.01	0.05	<0.001	0.01	0.05	0.04	<0.01	.	.
SUS 4/28	3.2	0.15	.	0.02	2.7	0.79	0.11	0.08	.	0.02	.	<0.005	0.06	0.50	.	0.03	.
SUS 1/19	3.1	0.44	0.05	0.07	2.8	0.47	0.19	0.50	0.33	0.02	.	0.05	<0.005	0.04	.	.	.
R G 16	3.1	0.2	0.3	<0.01	1.9	0.07	1.1	1.1	.	0.04	.	0.2	0.01	0.2	.	0.05	0.03
R N 15	2.9	1.6	0.008	0.07	<0.1	.	2.3	0.05	.	0.14	.	0.05	0.06	0.01	.	.	.
SUS 7/8	2.8	0.29	0.09	0.18	0.94	0.21	.	0.07	.	0.02	.	<0.01	.	0.06	.	.	.
BS DNR-2	2.72	0.85	0.031	0.006	2.52	0.02	18.9	1.62	0.007	<0.1	<0.05	<0.1	<0.05	<0.1	.	0.05	.
BS DNR-1	2.52	0.88	0.031	0.005	2.79	0.016	18.6	1.56	0.006	<0.1	<0.1	<0.1	<0.1	<0.1	.	0.04	.
SUS 6/6	2.5	0.65	0.05	0.12	1.8	0.02	.	0.10	.	<0.005	.	0.05	0.02	0.02	.	.	.
NCS AH11354a	2.25	1.17	0.375	0.095	2.66	1.65	0.623	0.493	0.253	0.072	0.117	0.046	0.184	0.518	0.434	0.0056	(0.0033)
R G 15	2.0	0.7	0.3	0.1	4.2	<0.01	0.5	0.5	0.8	0.06	.	0.1	.	.	.	.	.
C Fe 4	1.53	0.40	0.012	0.012	0.31	0.06	0.27	11.4	0.75	<0.005	<0.02	<0.02	<0.02	0.90	<0.02	.	.

Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	Nb	Sn	Ti	V	W	Mg	Ce
C Fe 5
NCS AH11355a	.	0.013	.	.	.	0.027	(0.0003)	.	.	.	.	.	.	.	.	.	.
SUS 5/56	0.001	.	.	.	.	.	.	.	0.02	.	.	.	.	.	.	.	.
SUS 2/49
C Fe 7	<0.001	.	.	.	.	.	.	.	.	.
SUS GGG
R G 13+Se	<0.01	.	.	<0.001	.	~0.02	.	.	.	.	.	.	.
SUS 3/21
R G 13	<0.01	.	.	.	.	.	.	.	.	.	.	.	.
R G 14	.	0.02	.	.	.	<0.01	.	.	.	.	.	.	.	.	.	.	.
BS SU CCD	0.001	.	.	0.0027	0.009	.	.	.	.	.	.	.	.	.	.	33 mm Ø x 17 mm	last
C Fe 8	.	0.03	.	.	0.005	.	.	.	.	.	0.003	.	.	.	.	38 mm Ø x 25 mm	.
SUS 4/28	<0.005	.	.	.	.	.	.	.	<0.005	.	.	.	.	.	.	60 mm x 35 mm x 18 mm	.
SUS 1/19	60 mm x 35 mm x 18 mm	.
R G 16	.	0.01	.	.	.	0.01	.	.	.	.	.	.	.	.	.	40 mm Ø x 20 mm	.
R N 15	.	0.01	.	.	.	.	.	.	0.03	.	.	.	.	.	.	35-40 mm Ø x 40 mm	.
SUS 7/8	.	0.004	<0.001	.	.	.	.	.	.	.	.	.	.	.	.	60 mm x 35 mm x 18 mm	.
BS DNR-2	<0.1	Fe: [73.3]	.	.	<0.1	.	.	.	.	.	.	33 mm Ø x 21 mm	.
BS DNR-1	<0.1	Fe: [73.5]	.	.	<0.1	.	.	.	.	.	.	33 mm Ø x 21 mm	.
SUS 6/6	.	<0.001	0.01	.	.	.	.	.	.	.	.	.	.	.	.	60 mm x 35 mm x 18 mm	.
NCS AH11354a	.	0.055	.	.	0.094	(0.0013)	.	.	.	.	.	.	.	.	.	31 mm Ø x 24 mm	.
R G 15	0.047	<0.02	~40 mm Ø x 20 mm	.
C Fe 4	0.02	40 mm Ø x 40 mm	.

Number	As	B	Bi	Ca	Co	La	N	Pb	Sb	Se	Te	Zn	Zr	Units
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CAST IRON SETTING-UP SET

DUCTILE IRON SETTING-UP SET

Number	typical analysis		available in SET/6 only			34 mm Ø x 5 mm			
	C	Mn	P	S	Si	Cu	Ni	Cr	Mo
KTC-9 B1	2.40	0.04	0.005	0.11	3.03	0.04	1.03	0.99	0.049
KTC-9 B2	2.61	0.23	0.024	0.082	2.69	0.20	0.81	0.81	0.20
KTC-9 B3	3.05	0.37	0.049	0.059	2.28	0.40	0.60	0.62	0.43
KTC-9 B4	3.36	0.55	0.069	0.039	1.91	0.61	0.41	0.42	0.62
KTC-9 B5	3.70	0.83	0.094	0.021	1.49	0.82	0.21	0.21	0.83
KTC-9 B6	4.08	0.99	0.12	0.003	0.94	1.01	0.05	0.06	1.06

Number	sold in set/5 only			typical analysis		45 mm Ø x 5 mm	
	Mg	C	Mn	P	S	Si	
KTC-10 M-1	0.05	3.4	0.1	0.015	0.002	2.5	
KTC-10 M-2	0.04	3.4	0.1	0.015	0.002	2.5	
KTC-10 M-3	0.03	3.4	0.1	0.015	0.002	2.5	
KTC-10 M-4	0.02	3.4	0.1	0.015	0.002	2.5	
KTC-10 M-5	0.01	3.4	0.1	0.015	0.002	2.5	

CAST IRON SETTING-UP SETS

typical analysis set KTC-13/1 8 pcs (3 pcs A and B 34mm Ø x 5mm, 1 each C 35mm Ø x 10mm) set KTC-14 10 pcs (2 pcs D, 4 pcs E and F) 34mm Ø x 5mm

Table with 19 columns: Number, C, Mn, P, S, Si, Cu, Ni, Cr, Mo, Al, B, Bi, Ce, Mg, Sb, Sn, Ti, V, Zn. Rows include KTC-13/2 A, KTC-13/2 B, KTC-13/2 C-1, KTC-13/2 C-2, KTC-14 FCD-D, KTC-14 FCD-E, KTC-14 FCD-F.

CAST IRON SETTING-UP SETS

typical analysis available in sets only, as grouped 34 mm Ø x 5 mm

Table with 19 columns: Number, C, Mn, P, S, Si, Cu, Ni, Cr, Mo, Al, Ce, Mg, Sn, Ti, V, Zn. Rows include KTC-11 D-1 to D-10, KTC-12 01 to 10.

Table with 6 columns: Number, B, Bi, Ca, Pb, Sb. Rows include KTC-11 D-1 to D-10, KTC-12 01 to 10.

IRON SETTING-UP SAMPLES

typical analysis C Fe O: no analysis issued

Table with 15 columns: Number, C, Mn, P, S, Si, Cu, Ni, Cr, Al, Sol.Al, Co, Mo, N, Sn. Rows include C Fe 1, R E 13, MBH REL2-20, SAG 0201, NCS AH11351b, R E 12, BS LC-7C SUS, NCS AH11351c, NCS AH11351a, BS SU CPI C, C Fe 0.

Table with 15 columns: Number, As, B, Ca, Fe, Mg, Nb, Pb, Sb, Ta, Ti, V, W, Zr, Units (mm). Rows include C Fe 1, R E 13, MBH REL2-20, SAG 0201, NCS AH11351b, R E 12, BS LC-7C SUS, NCS AH11351c, NCS AH11351a, BS SU CPI C, C Fe 0.

HIGH SILICA IN XRF DISCS

typical analysis										40 mm Ø x 5-6 mm
Number	SiO ₂	Al ₂ O ₃	CaO	Cl	Fe ₂ O ₃	K ₂ O	Na ₂ O	SO ₃	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	

CRM URANIUM IN XRF DISCS

typical analysis listed in mg/kg		12 mm Ø x 5 mm
Number	U	
IRMM 540R	15.0	last

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	last
SV E	0.5	0.3	.	.	.	.	.	.	last
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-4	13.6	0.164	1.41	0.652	0.284	4.42	4.83	2.75	0.02	0.76	0.27	0.0052	1.77	66.19	0.48	0.00308	0.0073
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-4	4	98	0.47	4.5	1.9	19	0.5	0.86	102	78	14.6	64	2.8	0.11	64.5
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-4	11.1	310	42	160	7.7	5.6	5.6	221	0.97	22.5	6.2	87	14	186	Copper Ore
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 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 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.