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CRM BISMUTH ALLOY

Number	Bi	Ag	As	Au	Cd	Cu	In	Ni	Pb	Sb	Sn	Unit
IMN LD 33	Rem	0.00552	0.0234	0.0226	0.00145	0.0264	0.00633	0.00167	0.0461	0.00708	42.81	40mm Ø x 25 mm

RM BISMUTH BASE and FUSIBLE SOLDER ALLOYS

95X: ~40 mm Ø x ~15 mm

NF: 37 mm Ø x 12 mm

Number	Bi	Cd	In	Pb	Sn	Ag	Al	As	Au	Co	Cu	Fe	Hg	Ni	Sb	Zn	Other
NF 64-7	Rem	.	0.003	0.076	45.0	1.25	.	0.006	0.011	0.026	0.004	.	.	0.005	0.26	.	
NF 64-6	Rem	.	0.007	0.26	43.1	0.70	.	0.018	0.035	0.039	0.11	.	.	0.042	0.11	.	
NF 64-5	Rem	.	0.098	0.006	42.6	0.99	.	.	.	.	0.076	.	.	.	0.078	.	
NF 64-4	Rem	.	0.075	0.052	42.0	0.40	.	0.010	<0.001	<0.001	0.006	.	.	0.025	0.053	.	
NF 64-3	Rem	.	0.049	0.025	41.4	0.20	.	0.005	.	.	0.049	.	.	0.072	0.026	.	
NF 64-1	Rem	.	0.010	0.098	41.0	0.006	.	0.0006	.	.	0.026	.	.	0.093	0.001	.	
NF 64-2	Rem	.	0.024	0.012	40.5	0.052	.	0.001	.	.	0.15	.	.	0.011	0.013	.	
95X 158	50.2	9.6	0.006	27.0	13.5	0.002	.	.	.	.	0.048	.	.	.	0.057	0.044	Melt 'C: 70
95X BIS50P1B	49.75	0.022	.	.	50.0	.	.	.	.	.	0.030	.	.	0.025	.	0.003	
95X BIS50P2B	49.55	.	.	.	50.3	0.090 (0.001)	0.005	0.015	.	.	0.012	.	.	.	.	.	
95X 136A	48.8	0.0092	21.49	18.0	12.05	0.0056	.	.	.	.	0.0028	.	.	.	0.022	0.031	Melt 'C: 58
95X PBS40P1A	13.8	0.0043	0.005	(43.6)	42.6	0.011 (0.0006)	0.005	.	.	.	0.025 (0.0006)	.	.	.	0.016	0.0010	

CRM BISMUTH ALLOY SET

available in set/6 only

40mm Ø x 25 mm

Number	Ag	Al	As	Au	Bi	Cd	Cu	Fe	In	Ni	Pb	Sb	Sn	Zn
IMN LD 1	0.00083	(0.0005)	0.00063	0.00661	Rem	0.0044	0.00277	0.00523	0.00144	0.00152	0.0113	0.00220	43.65	0.00019
IMN LD 2	0.121	.	0.00704	0.0166	Rem	0.00154	0.0333	0.00624	0.120	0.0157	0.0150	0.123	43.39	0.00063
IMN LD 3	0.00587	.	0.0210	0.0272	Rem	0.00114	0.0212	0.00664	0.00554	0.00624	0.0453	0.00738	41.76	0.00143
IMN LD 4	0.00560	(0.0018)	0.0202	0.0406	Rem	0.00235	0.0440	0.0262	0.00983	0.00140	0.0711	0.0111	43.16	0.00067
IMN LD 5	0.0136	(0.0015)	0.0275	0.0510	Rem	0.00232	0.0535	0.0318	0.0151	0.00232	0.0821	0.0170	43.07	0.00055
IMN LD 6	0.0539	(0.0004)	0.0169	.	Rem	0.00313	.	.	0.0736	.	.	0.0757	40.81	0.00086

RM CADIUM ALLOY

Number	Cd	Sn	Units
95X SC34A	(65.99)	34.05	40 mm Ø x 15 mm
95X SC36A	(63.98)	36.09	40 mm Ø x 15 mm

CRM CADIUM SET

SET ONLY 40 mm Ø x 25 mm discs

Number	As	Ni	Sb	Sn
IMN K1	(0.00030)	0.0086	0.0064	0.0061
IMN K2	0.0012	0.018	0.0038	0.0032
IMN K3	0.0010	0.063	0.0010	0.00065
IMN K4	0.0056	0.11	0.0011	0.00091
IMN K5	0.0014	0.0054	0.00017	.

COBALT BASE ALLOYS# = class, where 1 = CRM and 2 = rm analysis listed in mass % **17025** * Provisional Analysis

#	Number	Cr	Fe	Mn	Mo	Nb	Ni	W	Al	C	Cu	P	S	Si	Ti	Co
1	BS FSX414 *	29.8	0.15	0.79	0.21	0.013	10.25	7.48	0.012	0.13	<0.5	0.003	<0.05	0.81	0.018	[50.1]
1	ECRM 378-1D	28.22	0.606	0.0579	0.053	.	0.617	4.43	.	1.181	.	(0.0023)	0.0055	1.172	.	63.52
1	BS 173A	27.8	0.43	0.78	5.49	0.0026	(0.09)	0.0097	(0.06)	0.047	(0.014)	0.0024	0.0005	0.64	(0.012)	64.5
2	BS 173	27.5	0.19	0.76	5.62	(0.002)	0.14	.	(0.04)	0.046	(0.008)	(0.003)	0.001	0.61	(0.004)	65.0
1	IMZ 188	26.44	1.14	0.68	0.42	0.045	10.76	7.46	(0.005)	0.526	0.025	0.011	(0.0002)	0.69	(0.007)	51.64
1	IMZ 186	23.14	0.10	.	.	.	10.22	7.17	0.28	0.59	.	.	.	.	0.19	Rem
1	BS 172B	22.8	2.46	0.97	0.28	0.042	22.5	15.2	0.21	0.055	(0.02)	(0.008)	(0.0009)	0.33	0.079	34.8
2	BS 172A	21.85	1.76	0.77	0.30	0.09	23.7	14.0	0.08	0.098	0.027	(0.011)	(<0.0005)	0.37	.	.
2	BS 171B	20.5	1.82	1.90	0.65	0.046	10.68	15.1	0.08	0.087	0.035	0.008	<0.001	0.29	.	.
1	IARM CoElgiloy-18	20.4	12.6	2.36	8.6	(0.006)	15.9	(0.008)	(0.011)	0.008	(0.005)	0.0019	(0.0018)	0.05	(0.004)	40.4
1	BS MP35N	20.4	0.327	0.008	9.7	0.017	35.6	<0.05	0.047	0.009	(0.014)	<0.01	<0.01	<0.05	0.75	33.2
1	BS 171C	20.3	1.07	1.47	(0.08)	(0.006)	10.1	15.3	(0.04)	0.119	(0.02)	(0.008)	(0.0008)	(0.1)	(0.07)	51.2
1	BS 171D	20.2	1.07	1.47	(0.08)	(0.006)	10.1	15.3	(0.05)	0.120	(0.02)	(0.01)	(0.0009)	(0.1)	(0.05)	51.2
1	SRM 1242	20.0	1.80	1.58	.	(<0.005)	9.78	15.1	(<0.01)	0.126	0.0010	0.002	0.0007	0.016	.	51.5
1	IARM CoMP35N-18	19.9	0.031	0.002	10.1	.	36.53	.	0.060	0.0049	.	0.0022	0.0013	0.012	0.78	32.7

#	Number	Cr	Fe	Mn	Mo	Nb	Ni	W	Al	C	Cu	P	S	Si	Ti	Co
	Number	B	La	Mg	N	O	Pb	Sn	Ta	V	Zr	Units				
	BS FSX414 *	<0.05	.	.	<0.05	<0.005	.	.	<0.05	0.006	<0.005	41 mm Ø x 19 mm				
	ECRM 378-1D	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 20 mm				
	BS 173A	(0.0006)	.	H:0.0002	0.169	(0.0017)	.	.	.	(0.008)	.	38 mm Ø x 19 mm				
	BS 173	(0.001)	.	.	0.190	(0.002)	.	.	.	(0.01)	.	35 mm Ø x ~12 mm last				
	IMZ 188	0.0009	.	.	.	.	.	.	(0.011)	(0.011)	(0.0004)	1/4 of 75 mm Ø cylinder x 20 mm				
	IMZ 186	(0.007)	.	.	.	.	.	.	3.78	.	0.40	1/4 of 78 mm Ø cylinder x 30 mm				
	BS 172B	(0.004)	0.059	(0.001)	0.033	0.0011	As:(0.05)	.	(0.01)	0.0081	(0.008)	38 mm Ø x 19+ mm				
	BS 172A	(0.003)	0.045	(0.001)	.	.	.	.	(0.024)	0.007	last	38 mm Ø x ~10, ~14 or 19 mm				
	BS 171B	.	.	.	.	.	.	.	.	(0.02)	.	38 mm Ø x ~10 or 41 mm last				
	IARM CoElgiloy-18	(0.002)	.	.	0.0034	0.009	.	.	(0.01)	(0.009)	.	31 mm Ø x 2 or 18 mm				
	BS MP35N	0.0034	.	<0.01	0.0016	(0.0004)	.	<0.01	0.0021	0.0095	(0.002)	38 mm Ø x 19+ mm				
	BS 171C	(0.004)	(0.03)	(0.001)	0.0045	(0.002)	.	.	(0.02)	(0.009)	(0.01)	38 mm Ø x 19+ mm				
	BS 171D	(0.004)	(0.02)	(0.0008)	0.0046	(0.0008)	.	.	(0.02)	(0.01)	(0.01)	38 mm Ø x 19+ mm				
	SRM 1242	(<0.0001)	.	(<0.001)	0.026	.	(<0.0001)	(<0.001)	(<0.01)	0.005	(<0.01)	43 mm Ø x 20 mm				
	IARM CoMP35N-18	0.009	.	.	0.0018	.	.	.	.	0.006	(0.002)	38 mm Ø x 2 or 19 mm				
	Number	B	La	Mg	N	O	Pb	Sn	Ta	V	Zr	Units				

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

LEAD

= class, where 1 = CRM and 2 = RM analysis listed in mass %

#	Number	Ag	As	Bi	Cd	Cu	Ni	Sb	Se	Sn	Te	Zn
1	83X PR7C	0.287	0.050	0.497	0.450	0.148	0.0027	0.78	0.0069	0.218	0.0094	.
1	IMN PNA2	0.0591	.	0.0353	.	.	.	.	.	0.559	.	.
1	IMN PNA1	0.0357	.	0.0149	.	.	.	.	.	0.493	.	.
1	IMN PNA3	0.0214	.	0.0137	.	.	.	.	.	0.361	.	.
1	83X PR4J	0.0104	.	0.0131	0.0073	0.038	0.0018	0.0040	0.0024	.	(0.020)	.
1	SRM C2417	0.010	0.011	0.010	(<0.0002)	0.010	(<0.0005)	0.010	.	(<0.010)	(<0.0005)	(<0.0005)
1	BAM M109	0.0045	0.0113	0.0193	0.00353	0.00196	0.00035	0.0098	.	0.115	0.0030	0.0031
1	83X PR11A	0.0030	0.0095	0.0117	0.0008	0.0551	0.0011	0.497	(0.0001)	0.119	.	.
1	83X PR12B	0.0021	.	0.0116	0.00104	0.036	0.0009	.	.	0.0007	.	.
1	83X CU06A	0.0019	(0.0001)	0.0134	(0.00006)	0.0554	0.0003	(0.0008)	(0.0005)	(0.0004)	(0.0002)	(0.0003)
1	BCR 287A	0.00152	<0.0000003	0.00673	0.000036	0.000098	0.0000024	0.0000040	<0.000005	<0.000005	<0.00002	<0.00001
1	BAM M112	(0.0008)	.	(0.0070)	.	0.00082	0.00053	.	0.00052	.	0.00053	.
2	BCS 210e *	0.0001	.	0.0008	.	0.0006	<0.001	<0.002	.	<0.002	.	<0.005
1	ERM-EB107	.	.	.	0.00261	.	.	.	.	.	.	.
1	ERM-EB108	.	.	.	0.00260	.	.	.	.	.	.	.

Number	Al	Au	Ca	Fe	Hg	In	Mn	Na	Pt	S	Ti	Tl	Units
83X PR7C	.	.	.	.	.	0.55	.	.	0.0047	.	.	.	~40 mm Ø x ~15 mm
IMN PNA2	0.0186	.	0.0520	.	.	.	.	.	.	.	.	.	40 mm Ø x ~30 mm
IMN PNA1	.	.	0.0480	.	.	.	.	.	.	.	.	.	40 mm Ø x ~30 mm
IMN PNA3	0.0538	.	0.245	.	.	.	.	.	.	.	.	.	40 mm Ø x ~30 mm
83X PR4J	.	0.0021	.	.	(0.02)	(0.0015)	.	.	.	.	.	0.0022	~40 mm Ø x ~15 mm
SRM C2417	(<0.0001)	.	(<0.001)	(<0.0003)	.	.	(<0.0003)	.	.	.	.	.	50 mm Ø x 16 mm
BAM M109	(<0.00021)	.	.	.	.	(<0.00005)	.	.	.	.	.	0.00030	40 mm Ø x 40 mm
83X PR11A	.	.	.	(0.0003)	.	.	.	.	.	0.009	.	0.0042	~40 mm Ø x ~15 mm
83X PR12B	.	.	.	0.0007	.	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
83X CU06A	.	.	.	.	.	.	.	.	.	0.0011	.	.	~40 mm Ø x ~15 mm
BCR 287A	.	.	.	.	.	.	.	.	.	.	.	0.000073	60 mm x 60 mm x 12 mm
BAM M112	.	.	.	.	.	.	.	.	.	.	.	(0.0013)	38 mm Ø x 38 mm
BCS 210e *	<0.001	.	.	0.0005	.	<0.001	.	.	.	(0.00037)	0.001	.	500 g(10.5 x 2 x 2 cms)
ERM-EB107	.	.	.	.	0.00113	.	.	.	.	.	.	.	40 mm Ø x 40 mm
ERM-EB108	.	.	.	.	0.00083	.	.	.	.	.	.	.	40 mm Ø x 40 mm

** BCS 210e has a certified melting point of 327.3 °C and Pb: 99.996

CRM**REFINED LEAD SET**

analysis listed in mg/kg

40 mm Ø x 27 mm

Number	Ag	As	Bi	Ca	Cd	Cu	Fe	In	Mn	Ni	Sb	Se	Sn	Te	Tl	Zn	Single?
IMN PL 1	193	3.6	729	.	.	7.3	4.5	(64.3)	(0.20)	136	15.4	.	3.0	145	569	6.0	yes, last
IMN PL 2	97.0	2.6	460	.	218	14.9	4.4	(6.4)	(0.17)	159	7.2	33.3	2.6	349	228	(1.7)	SET ONLY
IMN PL 3	17.0	2.5	101	(3.4)	15.7	105	(2.4)	5.9	(0.60)	39.4	8.0	2.7	2.1	235	26.4	1.8	SET ONLY
IMN PL 4	10.3	345	59.9	.	5.1	197	.	.	.	8.5	3.4	2.7	.	23.6	21.5	.	yes
IMN PL 5	27.3	159	296	.	.	9.1	.	287	.	6.7	572	.	13.7	13.6	135	.	yes
IMN PL 6	64.3	318	48.3	(81.1)	623	4.7	(2.0)	104	(0.50)	5.5	310	.	7.6	8.2	494	.	SET ONLY
IMN PL 7	151	(74.3)	61.7	.	53.2	6.8	.	.	.	.	77.7	.	26.3	270	99.2	3.5	yes

LEAD BINARY

available individually

typical analysis

typical analysis

40 mm Ø x 15 mm

Class	Number	Sn	As	Pb	Sb	Units	Class	Number	Sb	Ag	As	Bi	Mg
RM	91X S40PD	40.0	.	Rem	.	40 mm Ø x 15 mm	CRM	81X PA12.5D	12.72	.	.	.	.
RM	NF 19	12.0	.	Rem	.	37 mm Ø x 12 mm	CRM	81X PA3.5E	3.49	.	.	.	.
CRM	91X S10PD	10.07	.	Rem	.	40 mm Ø x 15 mm	CRM	81X PA1.0C	0.989	.	.	.	.
RM	NF 18	9.80	.	Rem	.	37 mm Ø x 12 mm	CRM	81X PA0.5C	0.481	.	.	.	.
RM	NF 17	6.80	.	Rem	.	37 mm Ø x 12 mm	RM	81X PAS1A	(0.02)	.	1.25	(0.03)	last
RM	NF 16	3.00	.	Rem	.	37 mm Ø x 12 mm	RM	81X PMg1A	.	.	.	.	1.15
RM	NF 35	0.97	0.94	Rem	14.0	37 mm Ø x 12 mm	RM	81X PMg2A	.	.	.	.	0.173
RM	NF 42	.	.	Rem	12.9	37 mm Ø x 12 mm	RM	81X PMg3A	.	.	.	.	0.023
RM	NF 41	.	.	Rem	9.86	37 mm Ø x 12 mm	RM	82X PAG0.7A	.	0.733	.	.	.
RM	NF 36	.	.	Rem	0.48	37 mm Ø x 12 mm							

LEAD BASE XRF SET

SET/4 ONLY analysis listed in mass % 40 mm Ø x 4 mm

Number	Ag	Cd	Cu	Pb
JSAC 0131	0.488	(<0.0003)	0.102	0.00139
JSAC 0132	2.98	0.00873	1.01	0.05177
JSAC 0133	3.41	0.0830	0.756	0.1021
JSAC 0134	3.91	0.1530	0.513	0.2004

ALLOYED LEAD

37 mm Ø x 12 mm

Number	Sn	Ag	Al	As	Au	Bi	Ca	Cd	Cu	Fe	In	Ni	Pb	Sb	Zn
NF 30-1	40.00	0.005	.	0.007	.	0.03	.	.	0.005	.	.	<0.1	Rem	0.15	.
NF 30-3	39.70	0.025	.	0.03	.	0.15	.	.	0.04	.	.	<0.1	Rem	0.75	.
NF 30-2	39.30	0.01	.	0.01	.	0.06	.	.	0.011	.	.	<0.1	Rem	0.43	.
NF 43-3	11.3	0.010	(0.004)	0.004	0.012	0.040	.	0.009	0.003	<0.1	0.036	<0.1	Rem	0.20	<0.1
NF 31-3	10.7	1.10	.	.	.	0.032	.	.	0.0045	.	.	.	Rem	0.048	.
NF 31-2	10.0	2.15	.	.	.	0.010	.	.	0.014	.	.	.	Rem	0.085	.
NF 43-2	10.0	0.004	(0.002)	0.003	0.009	0.012	.	0.002	0.002	<0.1	0.011	<0.1	Rem	0.11	<0.1
NF 43-1	9.5	0.002	(0.005)	0.0009	0.005	0.011	.	0.0007	0.001	<0.1	0.005	<0.1	Rem	0.015	<0.1
NF 31-1	8.6	2.50	.	.	.	0.0079	.	.	0.02	.	.	.	Rem	0.20	.
NF 32-3	1.40	0.50	.	(0.02)	.	0.27	.	.	0.068	.	.	.	Rem	0.11	(0.005)
NF 44-6	1.05	0.7	.	.	.	0.8	.	0.53	0.064	.	<0.5	.	Rem	0.9	<0.01
NF 32-2	0.97	1.50	.	(0.01)	.	0.10	.	.	0.14	.	.	.	Rem	0.25	(0.0025)
NF 44-5	0.56	0.2	.	0.53	.	0.49	.	0.12	0.042	.	<0.01	.	Rem	0.60	<0.01
NF 32-1	0.41	1.90	.	(0.005)	.	0.055	.	.	0.23	.	.	.	Rem	0.42	(0.001)
NF 34-3	0.25	6.5	.	0.02	.	0.25	.	.	0.08	.	.	.	Rem	0.10	0.005
NF 44-4	0.13	0.033	.	0.06	.	0.053	.	0.04	0.03	.	<0.01	.	Rem	0.06	.
NF 34-2	0.10	5.5	.	0.01	.	0.10	.	.	0.15	.	.	.	Rem	0.25	0.0025
NF 44-3	0.06	0.02	.	0.02	.	0.021	0.0090	0.02	0.02	<0.005	<0.01	<0.01	Rem	0.02	.
NF 34-1	0.05	4.5	.	0.005	.	0.05	.	.	0.30	.	.	.	Rem	0.40	0.001
NF 44-2	0.0030	0.005	.	0.006	.	0.0051	.	0.00070	0.006	<0.005	<0.01	<0.01	Rem	0.0054	.
NF 44-1	<0.003	0.0013	.	0.0007	.	0.0009	0.0037	0.0021	0.0009	<0.005	<0.01	<0.01	Rem	<0.003	<0.01

HARD LEAD SETS

SOLD IN SETS ONLY, AS GROUPED

[illegible]

LEAD AND TIN ALLOYS

CONTINUED ON THE NEXT PAGE

= class, where 1 = CRM and 2 = RM analysis listed in mass %

#	Number	Sn	Sb	Ag	As	Bi	Ca	Cd	Cu	Fe	Ni	Te	Zn
1	91X S63Bi1A	61.9	0.470	0.0592	(<0.002)	0.597	.	0.0095	0.105	0.0204	0.0131	0.0012	(0.0022)
1	91X S62AG2A	61.68	0.347	2.03	0.022	0.168	.	0.0016	0.069	0.0065	(0.0016)	.	0.0011
1	91X S62AG2-21	61.5	0.362	2.06	0.015	0.170	.	0.0019	0.070	0.0062	0.0031	.	0.0014
1	91X S63PR1G	61.45	0.052	0.0061	0.0064	0.0588	.	0.0045	0.214	(0.0016)	0.0060	0.0047	(0.0021)
1	91X S63PR0C	60.0	0.024	0.020	0.017	0.0101	.	0.0124	0.0245	0.0016	0.0039	(0.0005)	(0.0004)
1	91X S50PR4B	53.06	0.132	0.0704	0.0364	0.114	.	0.0123	1.184	0.0028	0.0171	.	0.032
1	SRM 1131	39.3	0.43	0.01	0.01	0.06	.	.	0.011	.	0.012	.	.
2	91X S40PR1B	39.0	0.05	0.005	0.005	0.05	.	0.001	0.20	0.015	0.001	.	0.002
1	93X S30APR3C	33.0	0.96	0.021	0.018	0.28	.	0.009	0.008	0.003	0.010	.	0.0053
1	91X S30PR2C	30.17	0.619	0.060	0.028	0.158	.	0.0060	0.095	0.009	0.0077	.	0.016
1	93X S30APR1C	28.58	2.54	0.0144	0.010	0.059	.	0.0014	0.192	(0.012)	0.0010	.	(0.0004)
1	86X PSS4C	10.22	16.18	0.0279	0.202	0.119	.	0.0575	0.113	0.0012	0.0005	0.0071	0.0156
1	85X SSBCA	9.70	2.14	0.456	0.075	0.413	.	0.455	.	.	.	0.0037	.
1	91X S10PR1C	9.10	0.0278	0.0078	0.0045	0.0277	.	0.0029	0.0097	(0.0016)	0.0006	.	<0.001
1	86X PSS2C	6.46	9.0	0.0297	0.50	0.077	.	0.212	0.141	(0.0007)	0.0020	0.0033	<0.001
1	SRM 1132	5.84	10.26	.	0.057	0.052	.	.	0.054	<0.001	0.003	.	.
1	86X PSS1C	4.49	11.84	0.0038	0.54	0.201	.	0.0054	0.031	.	0.0057	(0.0022)	(0.0013)
1	84X BA9-21	2.96	0.0037	0.0021	0.0005	0.015	0.119	0.0011	0.0023	.	0.0003	.	0.0019
1	85X SSCHA	2.64	5.52	0.0134	0.208	0.0441	.	0.0040	0.177	(0.002)	0.010	0.0070	0.0007
1	85X PSN2D	1.90	0.020	0.0034	(0.0022)	0.026	.	0.00057	0.031	(0.0010)	0.0011	.	(0.0007)
1	BAM EB106	1.72	.	(0.00323)	.	(0.0135)	0.0782	.	.	.	.	.	.
1	84X BA13C	1.57	0.0006	0.0087	.	0.029	0.073	0.0016	0.0007	.	.	.	0.006
1	84X BA12-21	1.44	0.0029	0.0053	0.0003	0.017	0.062	0.0041	0.0020	.	.	.	0.0035
1	BAM EB105	1.43	.	0.00321	.	0.0133	0.0595	.	.	.	.	.	.
1	85X ANTHG	1.35	6.07	0.008	0.185	0.024	.	0.0045	0.013	.	0.0063	(0.009)	0.0008
1	84X BA11-21	1.28	0.0046	0.0026	(0.0003)	0.0166	0.052	0.0010	0.0015	.	.	.	0.0005
1	BAM EB104	1.27	.	(0.00293)	.	(0.0126)	0.0530	.	.	.	.	.	.
1	BAM EB102a	1.01	(0.0004)	0.0170	<0.0002	0.00737	0.0635	.	0.00013	<0.0002	.	<0.00011	<0.00005
1	84X BA14B	0.97	0.0008	0.0096	0.0003	0.0182	0.082	0.0025	0.0015	.	.	.	0.0048
1	84X BA15A	0.941	0.0047	0.0095	0.00053	0.0140	0.0865	0.0013	0.0011	.	.	.	0.0062
1	85X HRHJ	0.71	0.99	0.238	0.700	0.086	.	0.00035	0.070	.	0.0023	0.0022	.
1	84X BA7-21	0.58	0.0026	0.0020	0.0005	0.016	0.042	0.0008	0.0021	.	0.00012	.	0.0024
1	84X BA2E	0.515	0.0017	0.0061	.	0.0089	0.078	0.0058	0.0014	.	.	.	0.024
1	85X MS2XA	0.392	1.367	0.0043	0.176	0.0188	.	0.0002	0.0277	(0.0001)	0.0004	.	0.0003
1	84X BA20B	0.370	0.0038	0.0295	.	0.0144	0.368	0.0051	.	.	.	.	0.0435
#	Number	Sn	Sb	Ag	As	Bi	Ca	Cd	Cu	Fe	Ni	Te	Zn
1	84X BA3D	0.324	(0.006)	0.0062	<0.0005	0.0351	0.0212	0.0047	0.0061	.	(0.0001)	<0.0005	0.0032
1	SRM C2415a	0.3058	2.981	0.00762	0.1865	0.0507	.	0.00497	0.1022	.	0.00436	0.01034	.
1	85X PSb5G	0.288	4.72	0.0029	0.248	0.0124	.	0.00055	0.0526	.	0.0008	0.0016	0.0003
2	L21.02-2	0.28	0.0013	0.007	0.0003	0.013	0.020	0.0010	(0.002)	.	<0.0005	.	(0.004)
1	85X PSb12B	0.270	11.50	0.0019	0.071	0.0310	.	0.00053	0.330	.	0.0033	0.0056	0.071
2	L21.02-1	0.27	0.0003	0.008	.	0.01	0.03	<0.0002	0.0013	.	<0.0002	.	0.0016
1	85X S744A	0.237	1.532	0.0046	0.125	0.0182	.	0.00033	0.0366	<0.001	0.00053	.	0.00020
1	85X PSb24A	0.235	2.31	0.0016	0.148	0.0110	.	.	0.0274	.	.	.	.
1	85X PSb33A	0.204	3.21	0.0014	0.144	0.0115	.	.	0.035	.	.	.	.
1	84X BA23C	0.194	0.0022	0.0032	.	0.020	1.03	0.00029	.	.	.	.	0.0021
1	84X BA21B	0.162	0.0028	0.0102	.	0.0173	0.552	0.0007	.	.	.	.	0.0155
1	85X PSb3L	0.144	2.17	0.0040	0.253	0.023	.	0.0023	0.0316	.	0.0018	0.0048	0.0006
1	85X PSb10C	0.134	10.0	0.0018	0.113	0.040	.	0.0015	0.147	.	0.0018	.	0.0122
1	BAM M110	0.131	3.08	0.0022	0.107	0.0126	<0.0002	<0.0001	0.00064	.	.	0.00038	<0.0001
1	85X 0494 Pb2C	0.124	1.928	0.0279	0.102	0.0387	.	.	0.0227	<0.001	.	0.00382	.
1	85X CADHD	0.104	1.80	0.0072	0.176	0.013	.	1.84	0.0162	.	0.0011	0.0032	0.0011
1	83X PR2G	0.0948	0.0499	0.055	0.0233	0.0404	.	0.0020	0.0309	.	0.0006	0.0100	0.0005
1	84X BA22C	0.093	0.0009	0.0049	.	0.0168	0.82	0.0020	.	.	.	.	0.0049
1	SRM C2416	0.09	0.79	0.0044	0.056	0.10	<0.001	<0.0002	0.005	<0.0005	<0.0005	<0.0005	<0.0005
1	85X M2A	0.071	1.847	0.0016	0.259	0.0141	.	0.0003	0.0281	(0.0002)	0.0005	.	(0.0001)
1	85X 2.5LAA	0.068	2.48	0.0017	0.334	0.0142	.	(0.0002)	0.0372	.	0.0005	0.0004	0.0002
1	85X PSb6A	0.065	6.51	0.0459	0.111	0.0270	.	0.00460	0.0651	.	0.00213	0.0108	(0.0002)
1	85X PSb28A	0.061	2.73	0.0015	0.247	0.0110	.	.	0.0097	.	.	.	.
1	85X SB28A	0.051	2.87	0.00248	0.162	0.0140	.	(0.0001)	0.0035	(0.00015)	0.0012	.	(0.0001)
1	85X N35A	0.044	3.42	0.0011	0.201	0.0130	.	0.00013	0.0246	(0.0001)	0.00058	.	0.00013
1	85X A16A	0.0356	1.57	0.0297	0.0503	0.0165	.	0.00014	0.0006	(0.0001)	0.0006	.	0.00011
1	85X PSb60A	0.025	5.88	0.0013	0.078	0.0088	.	.	0.0403	.	.	.	.
1	85X SM31-21	0.024	2.89	0.0011	0.057	0.0118	.	0.00027	0.0178	0.0002	0.00032	0.0006	0.00020
1	85X CADLB	0.0182	2.00	0.0132	0.102	0.0489	.	1.22	0.0384	0.0008	0.0002	<0.001	(0.011)
1	85X SASHA	0.0130	1.54	0.0016	0.683	0.0602	.	0.00024	0.0245	.	0.0005	0.0006	.
1	85X CADLA	0.010	1.54	0.0076	0.0065	0.0169	.	1.69	0.0093	(0.0006)	(0.0005)	0.0030	(0.0018)
1	84X BA4D	0.0063	0.0149	0.0153	0.0005	0.0153	(0.0004)	0.0130	0.0270	.	(0.0003)	0.0395	0.0035
1	85X YUMA	0.0046	2.47	0.0018	0.306	0.0137	.	0.0002	0.0234	.	0.0007	0.0005	(0.0002)
1	85X 0616 Pb1D	(0.002)	1.53	0.0089	0.060	0.036	.	0.0018	0.0158	.	0.00071	0.0082	(0.001)
#	Number	Sn	Sb	Ag	As	Bi	Ca	Cd	Cu	Fe	Ni	Te	Zn

LEAD ALLOYS

CONTINUED FROM THE PREVIOUS PAGE

Number	Al	Au	Hg	In	Mg	Mn	Na	Pd	S	Se	Tl	Units
91X S63Bi1A	(0.0015)	0.074	.	0.0067	.	.	.	.	.	.	.	Disc 40 mm Ø x 15 mm
91X S62AG2A	(0.0011)	0.0020	.	.	.	.	.	.	.	.	.	Disc 40 mm Ø x 15 mm
91X S62AG2-21	.	0.0019	.	0.0016	Pb: (35.95)	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
91X S63PR1G	.	0.0348	(0.015)	0.0308	.	.	.	.	.	.	.	Disc 40 mm Ø x 15 mm
91X S63PR0C	.	(0.0004)	0.0082	0.0098	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
SRM 1131	.	.	.	.	.	.	.	.	.	.	.	Disc 32 mm Ø x 19 mm
91X S40PR1B	.	.	.	.	.	.	.	.	.	.	.	Disc 40 mm Ø x 15 mm
93X S30APR3C	.	.	.	.	.	.	.	.	.	.	.	Disc 40 mm Ø x 15 mm
91X S30PR2C	<0.0005	0.0017	.	.	.	.	.	.	.	.	.	Disc 40 mm Ø x 15 mm
93X S30APR1C	.	.	.	0.0094	.	.	.	.	.	.	.	Disc 40 mm Ø x 15 mm
86X PSS4C	.	.	.	0.0194	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
86X PSS4B	.	.	.	0.0174	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
85X SBCA	.	0.0079	.	0.209	.	.	.	.	(0.0008)	(0.0029)	0.0196	Disc 40 mm Ø x 15 mm
91X S10PR1C	.	.	.	.	.	.	.	.	.	.	.	Disc 40 mm Ø x 15 mm
86X PSS2C	.	.	.	0.0144	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
SRM 1132	.	.	.	.	.	.	.	.	.	.	.	Disc 32 mm Ø x 19 mm
86X PSS1C	.	.	.	0.0079	.	.	.	.	0.0054	.	.	Disc -40 mm Ø x -15 mm
84X BA9-21	0.028	.	.	.	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
85X SSCHA	.	.	.	.	.	.	.	.	0.0035	(0.015)	last	Disc 40 mm Ø x -11-13 mm
85X PSn2D	.	.	.	.	.	.	.	.	.	(0.0025)	.	Disc -40 mm Ø x -15 mm
BAM EB106	.	.	.	.	.	.	.	.	.	.	.	Disc 40 mm Ø x 40 mm
84X BA13C	0.049	.	.	.	.	.	.	.	(0.0009)	.	.	Disc -40 mm Ø x -15 mm
84X BA12-21	0.025	.	.	.	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
BAM EB105	.	.	.	.	.	.	.	.	.	.	.	Disc 40 mm Ø x 40 mm
85X ANTHG	.	.	.	.	Co:0.0005	.	.	.	(0.004)	0.014	.	Disc -40 mm Ø x -15 mm
84X BA11-21	0.028	.	.	0.0002	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
BAM EB104	.	.	.	.	.	.	.	.	.	.	.	Disc 40 mm Ø x 40 mm
BAM EB102a	0.0124	.	.	(-0.0002)	(-0.0001)	.	(0.0004)	.	(-0.0003)	.	0.00302	Disc 40 mm Ø x 40 mm
84X BA14B	0.020	.	.	.	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
84X BA15A	0.0161	.	.	.	.	.	.	.	.	.	.	Disc -38 mm Ø x -15 mm
85X HRHJ	.	.	.	.	.	.	.	.	0.0013	0.038	.	Disc -40 mm Ø x -15 mm
84X BA7-21	0.0105	.	.	.	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
84X BA2E	0.025	.	.	.	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
85X MS2XA	.	.	.	.	.	.	.	.	(0.0002)	0.0334	.	Disc -38 mm Ø x -15 mm
84X BA20B	0.065	.	.	.	.	.	.	.	.	.	.	Disc -38 mm Ø x -15 mm
Number	Al	Au	Hg	In	Mg	Mn	Na	Pd	S	Se	Tl	Units
84X BA3D	0.0043	.	.	.	0.00038	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
SRM C2415a	Pb:(96)	.	.	.	.	.	.	.	(0.0061)	0.01005	.	Disc 40 mm Ø x 18 mm
85X PSb5G	.	.	.	.	.	.	.	.	(0.010)	0.013	.	Disc -40 mm Ø x -15 mm
L21.02-2	(0.004)	.	.	.	.	.	.	.	.	.	.	Block 50 mm x 50 mm x 20 mm
85X PSb12B	.	.	.	.	.	.	.	.	<0.001	0.0004	.	Disc 40 mm Ø x 15 mm
L21.02-1	.	.	.	.	.	.	.	.	.	.	last of batch	Block 50 mm x 50 mm x 20 mm
85X S744A	.	.	.	.	.	.	.	.	0.0028	0.0253	.	Disc -40 mm Ø x -15 mm
85X PSb24A	.	.	.	.	.	.	.	.	0.0007	0.029	.	Disc -40 mm Ø x -15 mm
85X PSb33A	.	.	.	.	.	.	.	.	0.0009	0.020	.	Disc -40 mm Ø x -15 mm
84X BA23C	0.042	.	.	.	0.0034	<0.0005	.	.	.	.	.	Disc -40 mm Ø x -15 mm
84X BA21B	0.0125	.	.	.	.	.	.	.	.	.	.	Disc -39 mm Ø x -15 mm
85X PSb3L	.	.	.	.	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
85X PSb10C	.	.	.	.	.	.	.	.	.	0.0019	.	Disc -40 mm Ø x -15 mm
BAM M110	.	.	.	.	.	.	.	.	.	0.010	.	Disc 40 mm Ø x 30 mm
85X 0494 Pb2C	.	.	.	.	.	.	.	.	0.0052	0.0272	.	Disc -40 mm Ø x -15 mm
85X CADHD	.	0.0005	0.003	0.0010	.	.	0.0013	.	(0.0006)	0.0005	(0.0017)	Disc -40 mm Ø x -15 mm
83X PR2G	.	.	.	.	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
84X BA22C	0.055	.	.	.	0.0044	.	.	.	(0.0015)	.	.	Disc -40 mm Ø x -15 mm
SRM C2416	(-0.0001)	.	.	.	.	(-0.0005)	.	.	0.0015	.	.	Disc 50 mm Ø x 16 mm
85X M2A	.	.	.	.	.	.	.	.	(0.0008)	0.0247	.	Disc -38 mm Ø x -15 mm
85X 2.5LAA	.	.	.	.	.	.	.	.	.	0.0006	.	Disc -40 mm Ø x -15 mm
85X PSb6A	.	.	.	.	.	.	.	.	.	0.0018	.	Disc -40 mm Ø x -15 mm
85X PSb28A	.	.	.	.	.	.	.	.	0.0014	0.009	.	Disc -40 mm Ø x -15 mm
85X SB28A	.	.	.	.	.	.	.	.	0.0010	0.0223	.	Disc -38 mm Ø x -15 mm
85X N35A	.	.	.	.	.	.	.	.	0.007	0.0004	.	Disc -38 mm Ø x -15 mm
85X A16A	.	.	.	.	.	.	.	.	(0.0003)	0.0218	.	Disc -38 mm Ø x -15 mm
85X PSb60A	.	.	.	.	.	.	.	.	0.0054	0.009	.	Disc -40 mm Ø x -15 mm
85X SM31-21	.	.	.	.	.	.	.	.	.	0.016	.	Disc -40 mm Ø x -15 mm
85X CADLB	.	.	.	.	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
85X SASHA	.	.	.	.	.	.	.	.	(0.0005)	.	.	Disc 40 mm Ø x -15 mm
85X CADLA	.	.	.	.	.	.	.	.	.	(0.0011)	.	Disc 40 mm Ø x -15 mm
84X BA4D	.	.	.	0.0031	.	.	.	.	.	.	.	Disc -40 mm Ø x -15 mm
85X YUMA	.	.	.	.	.	.	.	.	0.0062	0.0008	.	Disc -40 mm Ø x -15 mm
85X 0616 Pb1D	.	.	(0.001)	.	.	.	.	.	.	0.0047	.	Disc -40 mm Ø x -15 mm
Number	Al	Au	Hg	In	Mg	Mn	Na	Pd	S	Se	Tl	Units

MAGNESIUM

= class, where 1 = CRM and 2 = RM

61X: not for Glow Discharge

#	Number	Al	Cu	Fe	Mn	Ni	Pb	Si	Zn	Ag	Be
1	63X MgE1E	(0.088)	0.0503	0.0014	0.860	0.0162	0.011	0.052	0.083	0.0195	(0.0002)
1	NCS HS91712-2	0.063	0.037	0.012	0.062	0.012	0.0073	0.037	0.038	.	.
1	NCS HS91712-3	0.055	0.017	0.015	0.039	0.0070	0.0035	0.055	0.020	.	.
1	NCS HS91712-4	0.017	0.0054	0.0044	0.011	0.0007	0.0013	0.0027	0.0058	.	.
1	NCS HS91712-6	0.011	0.0016	0.0071	0.016	0.0004	0.0025	0.019	0.0040	.	.
1	NCS HS91712-5	0.0062	0.0003	0.0015	0.0054	(0.0001)	(0.0005)	0.0024	0.0046	.	.
1	NCS HS91712-1	0.0052	0.062	0.0054	0.092	0.0041	0.012	0.015	0.058	.	.

Number	Ca	Cd	Ce	La	Na	Sn	Zr	~mm Ø x ~mm H
63X MgE1E	.	0.0017	.	.	.	0.0053	.	50x20 or 40x15
NCS HS91712-2	.	(0.0023)	.	.	(0.0002)	.	.	40 x 30
NCS HS91712-3	.	(0.0027)	.	.	(0.0003)	.	.	40 x 30
NCS HS91712-4	.	(0.0015)	.	.	(0.0003)	.	.	40 x 30
NCS HS91712-6	.	(0.0018)	.	.	(0.0001)	.	.	40 x 30
NCS HS91712-5	.	(0.0011)	.	.	(0.0001)	.	.	40 x 30
NCS HS91712-1	.	(0.0018)	.	.	(0.0004)	.	.	40 x 30

MAGNESIUM with RARE EARTHS

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

#	Number	Ag	Al	Be*	Ca	Cd*	Ce	Cu	Fe	Gd	La	Mn	Nd	Ni
1	67X MgK3A	.	4.56	7	.	.	0.83	0.0017	0.0024	0.038	0.374	0.516	0.175	0.0016
1	67X MgK2A	.	3.84	25	.	.	0.70	0.0041	0.0016	0.053	0.34	0.534	0.125	0.0033
1	64X MgQ9A	.	2.14	15	.	.	0.111	0.0104	0.0069	.	0.083	0.068	0.114	0.0020
1	66X MgD1B	.	0.147	.	.	.	0.065	0.0066	0.0029	.	0.031	0.125	0.064	0.0162
1	61X MgP5A	0.0342	0.119	18	.	292	0.049	0.092	0.0048	.	0.0382	0.201	0.0446	0.0176
1	61X MgP6A	0.0043	0.0449	.	(0.0008)	25	0.0209	0.0067	0.0041	.	0.0137	0.0125	0.0238	0.0025
2	AA C7548	.	0.004	.	.	.	2.66	0.022	.	.	.	0.035	.	0.001
2	AA C7514	.	0.002	.	.	.	2.47	0.12	.	.	.	0.012	.	0.002
2	AA C7489	.	0.001	.	.	.	2.57	0.004	.	.	.	0.012	.	0.015
2	AA E1273	.	0	.	.	.	1.86	0.022	.	.	.	0.041	.	0.002
2	AA E1272	.	0	.	.	.	1.79	0.026	.	.	.	0.045	.	0.003
1	58A ST5280	.	.	.	.	.	4.16	.	.	.	.	.	.	.
1	58A ST5290	.	.	.	.	.	3.37	.	.	.	.	.	.	.
1	58A ST5260	.	.	.	.	.	2.79	.	.	.	.	.	.	.
1	58A ST5250	.	.	.	.	.	1.54	0.133	.	.	.	0.214	.	0.005
1	58A ST5240	.	.	.	.	.	1.47	0.051	.	.	.	0.062	.	0.084
1	58A ST5230	.	.	.	.	.	1.28	0.068	0.0041	.	.	0.067	.	0.0011
1	58A ST5220	.	.	.	.	.	0.826	0.054	0.0033	.	.	0.093	.	0.0009
1	58A ST5210	.	.	.	.	.	0.149	0.0092	0.0027	.	.	0.15	.	0.001
2	AA D1075	.	.	.	.	.	.	.	.	.	.	.	.	.
2	AA D1073	.	.	.	.	.	.	.	.	.	.	.	.	.
2	AA D1072	.	.	.	.	.	.	.	.	.	.	.	.	.
2	AA D1074	.	.	.	.	.	.	.	.	.	.	.	.	.

#	Number	Ag	Al	Be*	Ca	Cd*	Ce	Cu	Fe	Gd	La	Mn	Nd	Ni
Number	Pb	Pr	R.E.	Si	Sn	Y	Zn	Zr	~mm Ø x ~mm H					
67X MgK3A	.	0.069	.	0.068	.	.	0.050	.	.	40 x 15				
67X MgK2A	.	0.053	.	0.057	.	.	0.132	.	.	50x20 or 40x15				
64X MgQ9A	0.0096	.	.	(0.37)	0.0076	.	0.243	.	.	40 x 15				
66X MgD1B	0.026	.	.	(0.073)	0.026	.	1.19	.	.	40 x 15				
61X MgP5A	0.0357	.	.	0.094	0.0352	0.0132	0.099	.	.	40 x 15				
61X MgP6A	0.0120	.	.	0.044	0.0091	0.0375	0.010	.	.	50 x 20				
AA C7548	.	.	(4.8)	0.002	.	.	.	0.16	.	62 x 6				
AA C7514	.	.	(4.7)	0.002	.	.	.	0.42	.	62 x 6				
AA C7489	.	.	(5.0)	0.002	.	.	.	0.46	.	62 x 6				
AA E1273	.	.	(3.6)	0.0	.	.	2.87	0.54	.	62 x 6				
AA E1272	.	.	(3.3)	0.0	.	.	2.58	0.54	.	62 x 6				
58A ST5280	.	.	.	.	.	.	3.52	0.63	.	45 x 25				
58A ST5290	.	.	.	.	.	.	4.37	0.81	.	45 x 25				
58A ST5260	.	.	.	.	.	.	4.36	(1.03)	.	45 x 25				
58A ST5250	.	.	.	.	.	.	1.46	.	.	45 x 25				
58A ST5240	.	.	.	.	.	.	2.69	.	.	45 x 25				
58A ST5230	.	.	.	(0.0047)	.	.	3.63	.	.	45 x 25				
58A ST5220	.	.	.	(0.0056)	.	.	4.58	.	.	45 x 25				
58A ST5210	.	.	.	.	.	.	5.59	.	.	45 x 25				
AA D1075	.	.	(3.7)	.	.	.	(2.7)	0.64	.	62 x 6	last of stock			
AA D1073	.	.	(3.7)	.	.	.	3.23	(0.6)	.	62 x 6				
AA D1072	.	.	(3.4)	.	.	.	2.02	(0.5)	.	62 x 6				
AA D1074	.	.	(3.4)	.	.	.	(2.7)	0.42	.	62 x 6				

Number	Pb	Pr	R.E.	Si	Sn	Y	Zn	Zr	~mm Ø x ~mm H					
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MAGNESIUM with ALUMINUM

#	Number	Al	Be	Ca	Cd	Cu	Fe	Mn	Ni	Pb	Si	Sn	Zn
1	65X MgA15A	10.67	0.0062	(0.0014)	0.0034	0.0273	0.010	0.067	0.0026	0.0051	0.034	0.0021	0.348
2	58A ZH2050M	10.4	0.0007	.	.	0.307	0.0081	(0.71)	0.019	.	0.41	.	0.201
1	64X MgQ3A	8.66	0.0041	.	.	0.0349	0.0090	0.206	0.0032	0.0022	(0.083)	0.0019	0.0039
1	58A ST1240	7.33	0.00015	.	.	0.02	0.015	0.182	(0.0015)	.	0.27	.	0.171
1	58A ST2000a	5.96	(0.00024)	.	.	0.0035	0.007	0.02	0.00094	.	0.097	.	0.0068
1	58A ST3320	5.82	0.00018	.	.	0.0016	0.0077	0.095	0.0012	.	1.54	.	0.128
1	NCS HS49724-2*	5.82	0.00018	.	.	0.0016	0.0077	0.095	0.0012	.	1.54	.	0.128
1	58A ST1260	4.56	0.0009	.	.	0.013	0.025	(0.65)	0.0025	.	0.241	.	0.106
1	58A ST3340	4.37	0.0009	.	.	0.103	0.022	0.33	0.0038	.	1.22	.	0.25
1	NCS HS49724-4*	4.37	0.0009	.	.	0.103	0.022	0.33	0.0038	.	1.22	.	0.25
1	65X MgA17A	4.20	.	0.021	0.0049	0.0215	0.0069	0.203	0.0141	0.009	0.33	0.0050	0.128
1	64X MgQ7A	4.02	0.00042	.	.	0.0167	0.0028	(0.434)	0.0053	0.0126	(1.05)	0.0096	0.0607
1	65X MgB4C	3.66	0.0033	0.0010	0.00016	0.0183	(0.009)	0.031	0.0003	0.0037	0.037	0.0050	0.333
1	58A ST3310	3.69	0.00011	.	.	0.0084	0.007	0.59	0.0012	.	0.54	.	0.102
1	NCS HS49724-1*	3.69	0.00011	.	.	0.0084	0.0070	0.59	0.0012	.	0.54	.	0.102
1	58A ST3350	2.58	0.0012	.	.	0.039	0.033	0.23	0.014	.	1.83	.	0.152
1	NCS HS49724-5	2.58	0.0012	.	.	0.039	0.033	0.23	0.014	.	1.83	.	0.152
1	58A ST1220	2.55	0.0009	.	.	0.0081	0.0089	0.338	0.0008	.	0.173	.	0.237
2	AA C8209	2.55	.	.	.	0.012	(0.02)	0.15	0.001	.	0.058	.	0.18
1	64X MgQ6A	2.31	0.0007	.	.	0.0045	(0.004)	(0.260)	0.0026	0.0060	(0.97)	0.0055	0.072
1	58A ST3330	1.09	(0.0005)	.	.	0.016	(0.0034)	(0.50)	(0.0013)	.	0.68	.	0.339
1	NCS HS49724-3*	1.09	(0.0005)	.	.	0.16	(0.0034)	(0.50)	(0.0013)	.	0.68	.	0.339
1	64X MgQ1A	1.083	0.00036	.	.	0.084	0.0034	0.377	0.0041	0.020	0.062	0.0195	0.235
1	64X MgQ8A	1.03	0.00015	.	.	0.0019	0.0018	0.700	0.0004	0.0008	0.045	0.0022	0.044

Number	Ag	Ce	Hg	La	Sr	Ti	Zr	~mm Ø x ~mm H
65X MgA15A	0.030	0.0069	0.011	0.0048	.	.	.	50x20 or 40x15
58A ZH2050M	.	.	.	.	.	.	.	~49 x ~34
64X MgQ3A	.	.	.	.	.	.	.	50x20 or 40x15
58A ST1240	.	.	.	.	.	.	.	45 x 25
58A ST2000a	.	.	.	.	.	.	.	45 x 25
58A ST3320	.	.	.	.	.	.	.	45 x 25
NCS HS49724-2*	.	.	.	.	.	.	.	45 x 25
58A ST1260	.	.	.	.	.	.	.	45 x 25
58A ST3340	.	.	.	.	.	.	.	45 x 25
NCS HS49724-4*	.	.	.	.	.	.	.	45 x 25
65X MgA17A	0.0064	.	.	.	.	.	.	50x20 or 40x15
64X MgQ7A	.	.	.	.	.	.	.	40 x 15
65X MgB4C	0.0046	0.0003	.	(0.0001)	.	(0.0008)	<0.001	40 x 18
58A ST3310	.	.	.	.	.	.	.	45 x 25
NCS HS49724-1*	.	.	.	.	.	.	.	45 x 25
58A ST3350	.	.	.	.	.	.	.	45 x 25
NCS HS49724-5	.	.	.	.	.	.	.	45 x 25
58A ST1220	.	.	.	.	.	.	.	45 x 25
AA C8209	.	.	.	.	.	.	.	62 x 6
64X MgQ6A	.	.	.	.	.	.	.	50x20 or 40x15
58A ST3330	.	.	.	.	.	.	.	45 x 25
NCS HS49724-3*	.	.	.	.	.	.	.	45 x 25
64X MgQ1A	.	.	.	.	.	.	.	50x20 or 40x15
64X MgQ8A	.	.	.	.	.	.	.	50x20 or 40x15

* available in their respective sets only, NCS HS49724 1-5 and NCS HS49725 1-7

MAGNESIUM with ALUMINUM and ZINC

= class, where 1 = CRM and 2 = RM

##: not for Glow Discharge

#	Number	Al	Zn	Be	Ca	Cd	Cu	Fe	Mn	Ni	Pb	Si	Sn
1	65X MgA21A	12.37	5.11	0.0006	.	.	0.0020	0.0140	0.0777	0.0010	0.0048	0.028	0.0063
2	58A ZH2040M	9.0	0.46	0.0013	.	.	0.222	0.01	0.57	0.015	.	0.285	.
1	65X MgA19A	8.97	2.17	0.00025	.	.	0.0426	0.0085	0.322	0.0065	0.049	0.196	0.049
2	AA SM183-B	(8.0)	(3.0)	.	.	.	.	.	(0.2)	0.005	.	.	.
2	AA SM183-C	(8.0)	(3.0)	.	.	.	.	.	(0.2)	0.005	.	.	.
1	65X MgA13A	7.45	0.925	(0.010)	0.0064	0.0055	0.125	(0.008)	0.092	0.0039	0.0085	0.022	0.043
2	58A ZH2030M	6.97	0.71	0.0017	.	.	0.151	0.018	0.374	0.0096	.	0.183	.
1	65X MgA16A	6.78	4.03	0.0011	0.0024	0.0066	0.099	0.0073	0.271	0.0057	0.050	0.023	0.028
1	65X MgA18A	6.75	0.502	0.00051	.	.	0.052	0.0081	0.192	0.0074	0.0244	0.043	0.0114
1	58A ST2120a	6.40	2.50	0.0004	.	.	0.080	0.008	0.35	0.0060	.	0.12	.
1	65X MgA20A	5.87	1.32	0.0018	.	.	0.013	0.008	0.067	0.0025	0.0075	0.052	0.032
1	65X MgA12A	5.68	3.18	(0.0036)	0.037	0.0121	0.266	0.0053	0.198	0.0148	0.010	0.0142	0.0021
2	58A ZH2020M	5.06	0.95	0.0022	.	.	0.085	0.028	0.256	0.0047	.	0.10	.
1	65X MgB3C	3.38	0.711	0.0019	(0.0033)	0.0025	0.022	0.0028	0.277	0.0027	0.0023	0.042	0.0017
2	58A ZH2010M	3.04	1.21	0.0032	.	.	0.0096	0.035	0.082	0.0006	.	0.037	.
2	AA C7641	(3.0)	1.36	.	.	.	.	.	.	.	.	.	.
1	65X MgB2D	2.81	1.047	0.0014	(0.010)	0.0103	0.065	0.0032	0.526	0.0043	0.0053	(0.088)	0.0052
1	65X MgB2C	2.67	0.95	0.0008	0.011	0.0114	0.113	(0.010)	0.333	0.0027	0.0036	0.069	0.0047
2	AA C7639	2.39	(1.0)	.	.	.	.	.	(0.4)	.	.	.	.
1	65X MgB1E	1.90	1.60	0.0008	(0.067)	0.076	0.051	0.0027	0.770	0.0020	0.0095	0.069	0.0098
1	58A ST1270	1.36	0.492	0.0033	.	.	0.01	0.0049	0.13	0.01	.	0.065	.
#	Number	Al	Zn	Be	Ca	Cd	Cu	Fe	Mn	Ni	Pb	Si	Sn

Number	Ag	Ce	Hg	La	Ti	Zr	~mm Ø x ~mm H
65X MgA21A	.	.	.	.	.	.	50x20 or 40x15
58A ZH2040M	.	.	.	.	.	.	~49 x ~34
65X MgA19A	.	.	.	.	.	.	50x20 or 40x15
AA SM183-B	.	.	.	.	.	.	62 x 6
AA SM183-C	.	.	.	.	.	.	62 x 6
65X MgA13A	0.0074	0.0024	(0.033)	0.0021	.	.	50x20 or 40x15
58A ZH2030M	.	.	.	.	.	.	~49 x ~34
65X MgA16A	0.0035	0.0017	0.005	0.0012	.	.	50x20 or 40x15
65X MgA18A	.	.	.	.	.	.	50x20 or 40x15
58A ST2120a	.	.	.	.	.	.	45 x 40
65X MgA20A	.	.	.	.	.	.	50x20 or 40x15
65X MgA12A	0.0128	0.0009	(0.016)	0.0007	.	.	50x20 or 40x15
58A ZH2020M	.	.	.	.	.	.	~49 x ~34
65X MgB3C	0.0028	.	.	.	.	.	50x20 or 40x15
58A ZH2010M	.	.	.	.	.	.	~49 x ~34
AA C7641	.	.	.	.	.	.	62 x 6
65X MgB2D	0.0099	.	.	.	.	.	50x20 or 40x15
65X MgB2C	0.0098	0.0009	.	0.0007	0.0003	<0.001	40 x 15
AA C7639	.	.	.	.	.	.	62 x 6
65X MgB1E	0.0300	.	.	.	.	.	50x20 or 40x15
58A ST1270	.	.	.	.	.	.	45 x 25
Number	Ag	Ce	Hg	La	Ti	Zr	~mm Ø x ~mm H

MAGNESIUM with MANGANESE

= class, where 1 = CRM and 2 = RM

#	Number	Mn	Al	Cu	Fe	Ni	Pb	Si	Sn	Zn	Ag	Ca	Cd	~mm Ø x ~mm H
2	AA C8096	1.88	(0.1)	(0.04)	.	(0.003)	.	(0.05)	.	(0.1)	.	.	.	62 x 6
1	63X MgE2B	1.76	0.045	0.0203	0.0019	0.0035	0.0020	0.019	0.0026	0.0243	0.0089	(0.0016)	0.0009	40 x 15
2	AA SMD3A	1.69	0.08	0.032	.	0.002	.	0.034	.	0.058	.	.	.	62 x 6
1	63X MgE3C	1.62	(0.056)	0.0072	0.0005	0.0028	0.0046	0.014	0.006	0.0101	0.0041	.	0.0046	40 x 15
2	AA C8095	(1.6)	0.17	0.012	.	0.005	.	0.052	.	0.029	.	.	.	62 x 6
2	AA C8016	(1.3)	0.03	0.070	.	0.011	.	0.064	.	0.11	.	.	.	62 x 6
2	AA C7857	1.07	(0.1)	(0.03)	.	(0.001)	.	(0.05)	.	(0.1)	.	.	.	62 x 6

MAGNESIUM with ZINC

= class, where 1 = CRM and 2 = RM

#	Number	Zn	Ag	Al	Be	Ca	Cu	Fe	Mn	Ni	Pb	Si	Sn	Sr	Zr	~mm Ø x ~mm H
1	58A ST5310	7.20	.	0.0040	.	.	1.64	0.0110	0.967	0.0020	.	0.025	.	.	.	45 x 35
1	66X MgC4C	6.81	0.0074	0.039	(0.0001)	(<0.001)	0.0024	0.006	0.166	0.0009	0.0030	0.06	0.021	(0.00014)	<0.001	50 x 20
1	58A ST7320	6.68	.	(0.036)	.	.	3.45	0.0069	0.361	0.00024	.	0.066	.	.	.	45 x 25
1	66X MgC5A	6.61	.	0.072	.	.	0.0286	0.0008	1.17	0.0111	0.0281	0.026	0.0051	.	.	50x20 or 40x15
1	66X MgD5A	6.25	0.044	0.040	<0.0005	(0.030)	2.88	0.008	0.307	0.0120	0.097	0.134	0.104	.	.	50x20 or 40x15
1	58A ST7330	6.01	.	0.205	.	.	2.76	0.019	0.57	0.055	.	0.144	.	.	.	45 x 25
1	58A ST7340	5.52	.	0.148	.	.	3.71	(0.019)	0.25	0.018	.	0.332	.	.	.	45 x 25
1	58A ST7350	4.76	.	0.106	.	.	4.17	0.016	0.133	0.0022	.	0.215	.	.	.	45 x 25
2	AA C7510	3.04	.	.	0.11	.	0.019	.	.	0.001	.	.	.	.	.	62 x 6
2	AA SM176	(3.0)	.	0.19	.	.	(0.03)	.	(0.2)	.	.	(0.1)	.	.	.	62 x 6
2	AA SM175	(2.0)	.	0.21	.	.	(0.03)	.	(0.2)	.	.	(0.1)	.	.	.	62 x 6

RM JEWELRY INDIVIDUAL XRF SAMPLES

analysis listed in mass % FLX 0740: 2mm Ø mounted in 36mm Ø x 10mm others: 3mm Ø mounted in 36mm Ø x 10mm

Number	Ag	Au	Cu	Fe	Ir	Ni	Pd	Pt	Rh	Ru	W	Zn
FLX 0720	.	99.99	0.002	.	0.002	.	0.002	0.002	0.002	.	.	.
FLX 1404	.	99.69	.	.	.	.	.	.	.	.	.	Co: 0.310
FLX 0701A	5.82	91.73	2.45	.	.	.	.	.	.	.	.	.
FLX 0702	4.60	90.12	5.28	.	.	.	.	.	.	.	.	last
FLX 0702A	5.90	89.97	4.13	.	.	.	.	.	.	.	.	.
FLX 1405	.	81.89	.	.	.	18.11	.	.	.	.	.	.
FLX 0743	.	80.07	1.12	.	.	14.35	.	.	.	.	.	4.46
FLX 1402	5.16	76.37	10.29	.	.	.	.	.	.	.	.	8.18
FLX 0703	4.18	75.14	4.93	.	.	.	15.75	.	.	.	.	.
FLX 0708	.	75.12	17.47	.	.	5.81	.	.	.	.	.	1.60
FLX 0726	10.16	75.11	14.73	.	.	.	.	.	.	.	.	.
FLX 0728	4.79	75.1	20.11	.	.	.	.	.	.	.	.	.
FLX 0727	8.98	75.07	15.95	.	.	.	.	.	.	.	.	.
FLX 0724	15.07	75.05	9.88	.	.	.	.	.	.	.	.	.
FLX 0725	12.54	75.03	12.43	.	.	.	.	.	.	.	.	.
FLX 0705	10.09	75.03	4.83	.	.	.	10.05	.	.	.	.	.
FLX 0704	2.75	75.03	9.74	.	.	.	12.48	.	.	.	.	last
FLX 0707	2.75	75.02	15.13	.	.	5.04	.	.	.	.	.	2.06
FLX 0706	13.13	75.0	5.42	.	.	.	6.45	.	.	.	.	8.40
FLX 1302	15.16	59.13	17.31	.	.	.	.	.	.	.	.	.
FLX 0710	30.94	59.06	3.48	.	.	.	6.52	.	.	.	.	.
FLX 0709	21.93	59.02	4.05	.	.	.	15.0	.	.	.	.	.
FLX 0903	4.32	58.69	36.99	.	.	.	.	.	.	.	.	.
FLX 0738	19.7	58.65	19.22	.	.	.	.	.	.	.	.	2.43
FLX 0904	13.77	58.65	27.58	.	.	.	.	.	.	.	.	.
FLX 0905	25.06	58.64	14.92	.	.	.	.	.	.	.	.	1.38
FLX 0715	.	58.64	26.18	.	.	6.09	.	.	.	.	.	9.09
FLX 0736	33.01	58.61	7.89	.	.	.	.	.	.	.	.	0.49
FLX 0712	27.36	58.59	4.05	.	.	.	10.0	.	.	.	.	.
FLX 0735	6.65	58.58	31.08	.	.	.	.	.	.	.	.	3.69
FLX 0739	33.39	58.53	8.08	.	.	.	.	.	.	.	.	.
FLX 0729	29.42	58.52	12.06	.	.	.	.	.	.	.	.	.
FLX 0711	10.72	58.49	26.47	.	.	.	.	.	.	.	.	4.32
FLX 0713	4.84	58.47	24.91	.	.	8.39	.	.	.	.	.	3.39
FLX 0714	.	58.44	41.31	.	.	.	.	.	.	.	.	0.25
FLX 0744	26.84	55.37	10.09	.	.	.	6.49	.	.	.	.	1.21
FLX 0737	6.15	38.35	46.89	.	.	.	.	.	.	.	.	8.61
FLX 1301	45.83	37.63	12.67	.	.	.	.	.	.	.	.	3.87
FLX 0716	15.09	37.63	37.97	.	.	.	.	.	.	.	.	9.31
FLX 0731	54.31	37.52	8.17	.	.	.	.	.	.	.	.	.
FLX 0732	58.75	33.71	7.54	.	.	.	.	.	.	.	.	.
FLX 0734	6.3	33.65	50.28	.	.	.	.	.	.	.	.	9.77
FLX 1401	33.00	33.61	33.36	.	.	.	.	.	.	.	.	0.030
FLX 0718	6.21	33.56	49.69	.	.	.	.	.	.	.	.	10.54
FLX 0717	11.92	33.52	41.04	.	.	.	.	.	.	.	.	13.52
FLX 1403	5.90	29.36	53.80	0.010	.	0.200	0.030	0.010	.	.	.	10.68
FLX 0721	99.97	.	0.008	.	0.005	.	0.005	0.007	0.005	.	.	Cd: 0.010
FLX 0719	99.94	.	0.06	.	.	.	.	.	.	.	.	.
FLX 0730	93.56	.	6.44	.	.	.	.	.	.	.	.	.
FLX 1303	92.76	.	4.92	.	.	.	.	.	.	.	.	2.32
FLX 0733	83.75	.	16.25	.	.	.	.	.	.	.	.	.
FLX 1406	34.98	.	6.50	.	.	.	58.52	.	.	.	.	.
FLX 0742	0.005	.	99.99	0.005	.	.	.	.	.	.	.	.
FLX 0740	.	.	0.005	.	0.09	.	.	.	99.90	0.005	.	.
FLX 0723	.	.	0.01	0.01	.	.	99.96	0.01	0.01	.	.	.
FLX 0722	.	.	.	.	0.02	.	0.02	99.95	0.01	.	.	.
FLX 0741	.	.	4.16	.	.	.	.	95.84	.	.	.	.
FLX 0902	.	.	.	.	.	.	.	95.37	.	.	4.63	.
FLX 0901	.	.	.	.	.	.	.	95.23	.	4.77	.	.
FLX 1202	.	.	.	.	10.0	.	.	90.0	.	.	.	.
FLX 1201	.	.	.	.	25.0	.	.	75.0	.	.	.	.

Number	Ag	Au	Cu	Fe	Ir	Ni	Pd	Pt	Rh	Ru	W	Zn
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RM LARGER JEWELRY SAMPLES

16 mm Ø mounted in 36mm Ø x 10mm

Number	Ag	Au	Cu	Ni	Pd	Zn
FLX 0720-16	.	99.99	0.002	.	.	.
FLX 0704-16d	2.99	75.22	9.19	.	12.6	.
FLX 0738-16	19.8	58.58	21.1	.	.	0.52
FLX 0744-16	26.8	55.60	9.43	.	6.57	1.52
FLX 0732-16a	57.23	33.31	9.46	.	.	.
FLX 0734-16a	7.09	33.41	48.82	.	.	10.68

Ir, Pd, Pt, Rh: 0.002

replacement in development

CRM GOLD ALLOYS

analysis listed in mass % ~16 mm disc mounted in acrylic 40 mm Ø x 5 mm

Number	Alloy	Ag	Au	Cu	Ni	Zn
ERM-EB508	Yellow Gold	24.90	75.12	.	.	.
ERM-EB507	White Gold	3.02	75.10	14.69	4.99	2.107
ERM-EB506	Rose Gold	3.90	58.56	35.65	.	1.891

SILVER

analysis listed in mg/kg

131X PAG: RM, 34 Ø x 12mm

131X AGP: RM, 25 Ø x 3mm

IMN SH: CRM 40 Ø x ~13-20mm

IMN SJ: 40 mm Ø x ~15 mm

Number	Cu	Al	As	Au	Bi	Cd	Fe	Ga	In	Ir	Mn	Ni	P	Pb	Pd	Pt	Rh	Sb	Se	Si	Sn	Te	Tl	Zn
131X PAG2A	400	2	8	20	12	5	7	15	.	0.02	10	9	2	12	180	10	2	12	10	4	14	15	.	40
131X AGP2B	193	.	29	114	96	56	(20)	.	.	.	49	57	.	75	105	112	.	107	65	.	95	90	.	109
131X PAG1A	75	8	12	120	40	35	5	60	.	0.02	35	25	4	40	180	35	<1	50	35	30	40	120	.	50
131X AGP3B	66	.	6	26	12	6	(11)	.	.	.	3	12	.	12	16	23	.	21	16	.	22	18	.	34
IMN SH3	59.0	.	11.0	7.7	9.2	9.6	11.3	.	8.7	.	27.3	29.7	.	44.9	25.7	25.4	.	48.6	8.7	.	.	25.7	25.8	43.8
131X AGP4B	41	.	3	9	7	2	(23)	.	.	.	3	6	.	5	7	7	.	12	6	.	6	5	.	20

RM SILVER ALLOYS

analysis in mass %

Number	Ag	Au	Cu	Pb	Zn	Units	Status
132X AGB100B	99.84	.	0.012	.	.	~40 mm Ø x ~10 mm	last of stock
132X AGB90A	90.16	.	9.56	.	.	~40 mm Ø x ~10 mm	last of stock
132X AGB88B	88.12	.	11.87	.	.	~40 mm Ø x ~10 mm	last of stock
132X AGB75B	75.20	.	24.75	.	.	~40 mm Ø x ~10 mm	last of stock
133X AGQ2C	rem	0.978	5.808	0.469	.	25 mm Ø x 3 mm	ok
133X AGQ1C	rem	0.251	2.532	0.245	.	25 mm Ø x 3 mm	ok

RM SILVER ALLOY

analysis in mass %

Number	Au	Bi	Cu	Pb	Sb	Se	Sn	Zn	Al	As	Cd	Co	Fe	Ge	In
133X AGA2A	0.507	0.113	10.00	1.02	0.192	0.0078	0.520	0.502	0.0019	0.0144	0.0113	0.0163	0.027	0.0047	0.0065

Number	Mn	Ni	Pd	Pt	Te	Units
133X AGA2A	0.0115	0.0264	0.0076	0.0114	0.0098	~25 mm Ø x ~3 mm last of stock

TIN		# = class, where 1 = CRM and 2 = RM															analysis listed in mass %	
#	Number	Ag	Al	As	Au	Bi	C	Cd	Co	Cr	Cu	Fe	Ga	Ge	Hg	In		
1	SRM 1728	0.4591	.	.	.	(0.0128)	.	0.00582	(0.0057)	(0.00012)	3.06	0.0111	.	.	0.011198	(0.0031)		
1	71X SR2G	0.033	(0.005)	(0.005)	(0.005)	0.041	.	0.034	0.0017	(0.001)	0.062	0.011	0.019	0.021	0.046	0.048		
1	71X SR1F	0.0165	(0.002)	0.0032	0.0022	0.0102	.	0.0109	0.0016	.	0.0016	(0.002)	.	0.011	0.0178	0.0104		
1	71X SR0D	0.0101	0.0057	(0.0006)	0.0039	(0.0007)	.	0.0020	0.0006	.	0.0049	0.0011	0.0070	(0.0005)	0.0083	0.0119		
1	71X SR3G	0.065	0.0011	0.033	0.015	0.105	.	0.102	0.0021	.	0.128	0.0111	0.056	0.053	0.09	0.098		
1	SRM 1729	(<0.0075)	(0.0460)	.	.	0.01147	.	.	.	.	(0.0024)	(0.00141)	.	.	.	.		
1	SRM 1727	.	.	(<0.0100)	.	(0.0008)	.	.	(0.0002)	.	(0.0004)	(0.0020)	.	.	.	(0.0020)		
2	BCS 192	.	.	<0.0001	.	<0.0001	0.001	<0.0001	.	.	<0.0001	<0.0001	.	.	.	<0.0001		
Number	Ni	P	Pb	S	Sb	Se	Si	Sn	Te	Tl	Zn	Melt °C	Units					
SRM 1728	0.00817	(0.0010)	0.0544	0.00349	(0.0087)	.	(0.0045)	(96.3)	.	.	(0.0156)	.	39 mm Ø x 15 mm					
71X SR2G	0.0127	(0.004)	0.147	.	0.069	0.002	.	.	0.020	(0.3)	0.0045	.	40 mm Ø x 15 mm					
71X SR1F	0.0058	0.0014	0.0256	(0.002)	0.0203	0.004	.	.	0.0010	.	0.0126	.	~40 mm Ø x ~15 mm					
71X SR0D	0.0009	0.0007	0.038	(0.0047)	0.028	.	.	.	0.0019	.	0.0022	.	~40 mm Ø x ~15 mm					
71X SR3G	0.039	.	0.31	.	0.16	0.0018	.	(98.71)	0.056	.	0.023	.	~40 mm Ø x ~15 mm					
SRM 1729	(0.00022)	.	0.000311	.	(0.00964)	.	(0.0020)	(96.9)	.	.	0.0518	.	39 mm Ø x 15 mm					
SRM 1727	(0.0003)	.	0.003326	.	(0.0040)	.	.	.	.	.	.	.	30 mm x 30 mm x 30 mm					
BCS 192	<0.0001	.	<0.001	0.0002	<0.001	.	.	99.996	.	.	<0.0001	231.9	300 g block or 100 g chips					

RM

TIN - LOW ALLOY

37 mm Ø x 12 mm

Number	Ag	Al	As	Bi	Cd	Co	Cu	Fe	In	Ni	Pb	Sb	Sn	Zn
NF 54-1	0.005	0.005	<0.1	0.002	0.0002	0.002	0.01	<0.1	0.005	0.002	0.03	0.005	Rem	<0.1
NF 54-2	0.01	0.01	<0.1	0.005	0.0005	0.005	0.05	<0.1	0.01	0.005	0.15	0.01	Rem	<0.1
NF 54-3	0.03	0.03	<0.5	0.01	0.001	0.01	0.15	<0.1	0.02	0.01	0.40	0.02	Rem	<0.1
NF 54-4	0.06	.	<0.5	0.02	0.005	0.02	0.30	<0.1	0.04	0.02	0.70	0.04	Rem	<0.1
NF 54-5	0.10	.	<0.75	0.035	0.01	.	0.50	.	0.08	.	1.0	0.08	Rem	<0.1

RM

BISMUTH AND SULPHUR IN TIN

certified analysis in bold, rest is informational composition

37 mm Ø x 12 mm

Number	Bi	S	Ag	Al	As	Au	Cd	Cu	Fe	In	Ni	P	Pb	Sb	Sn	Zn
NF 60-3	3.00	<0.001	0.001	<0.001	<0.01	<0.001	<0.001	0.001	<0.001	0.005	<0.001	<0.01	Rem	0.005	60	<0.001
NF 60-2	2.39	<0.001	0.001	<0.001	<0.01	<0.001	<0.001	0.001	<0.001	0.005	<0.001	<0.01	Rem	0.005	60	<0.001
NF 60-1	2.01	<0.001	0.001	<0.001	<0.01	<0.001	<0.001	0.001	<0.001	0.005	<0.001	<0.01	Rem	0.005	60	<0.001
NF 13-1	0.005	0.0005	0.004	<0.001	<0.010	0.002	<0.001	0.021	0.003	<0.005	0.001	<0.010	Rem	0.013	63.01	<0.001
NF 13-2	0.005	0.001	0.004	<0.001	<0.010	0.002	<0.001	0.021	0.003	<0.005	0.001	<0.010	Rem	0.013	63.01	<0.001
NF 13-3	0.005	0.006	0.004	<0.001	<0.010	0.002	<0.001	0.021	0.003	<0.005	0.001	<0.010	Rem	0.013	63.01	<0.001
NF 13-4	0.005	0.0074	0.004	<0.001	<0.010	0.002	<0.001	0.021	0.003	<0.005	0.001	<0.010	Rem	0.013	63.01	<0.001
NF 13-5	0.005	0.021	0.004	<0.001	<0.010	0.002	<0.001	0.021	0.003	<0.005	0.001	<0.010	Rem	0.013	63.01	<0.001
NF 59-5	0.008	0.020	3.98	<0.001	<0.01	<0.001	<0.001	0.51	0.005	0.006	0.001	<0.01	0.056	0.023	Rem	0.001
NF 59-4	0.008	0.0085	3.98	<0.001	<0.01	<0.001	<0.001	0.51	0.005	0.006	0.001	<0.01	0.056	0.023	Rem	0.001
NF 59-3	0.008	0.0048	3.98	<0.001	<0.01	<0.001	<0.001	0.51	0.005	0.006	0.001	<0.01	0.056	0.023	Rem	0.001
NF 59-2	0.008	0.0007	3.98	<0.001	<0.01	<0.001	<0.001	0.51	0.005	0.006	0.001	<0.01	0.056	0.023	Rem	0.001
NF 59-1	0.008	<0.0006	3.98	<0.001	<0.01	<0.001	<0.001	0.51	0.005	0.006	0.001	<0.01	0.056	0.023	Rem	0.001

CRM

SPECIALTY TIN BASE LOW-LEAD and LEAD-FREE SOLDERS

analysis listed in mass %

~40 mm Ø x ~15 mm

Number	Ag	Al	As	Au	Bi	Cd	Co	Cu	Fe	Ge	Hg	In	Ni	P	Pb	S	Sb	Se	Zn
74X CA5-21	4.11	0.0004	0.011	0.008	0.0056	0.0019	.	1.22	0.0011	.	0.0084	0.0158	0.0159	0.0047	0.044	.	0.133	.	.
74X CA7B	4.02	Cr:0.0045	0.0085	.	0.0102	0.0059	(0.0018)	0.347	0.007	.	0.049	0.0053	0.0315	.	0.107	.	0.0194	.	0.0501
74X AB1A	3.58	.	0.0280	0.0010	0.997	0.0199	0.0032	0.0285	0.0435	.	.	0.0262	0.0036	.	0.0353	.	0.0111	.	.
74X CA2C	3.50	.	0.0145	0.0016	0.0298	0.0039	0.0025	0.797	0.0038	0.014	0.0054	0.0084	0.0336	0.005	0.057	.	0.0806	.	0.0015
74X CA4-21	3.13	0.0006	0.0035	0.0018	0.046	0.0024	0.00062	0.550	0.0098	.	0.0069	0.0116	0.055	.	0.085	.	0.058	.	0.0035
74X CA3C	3.02	0.0005	0.0022	0.0087	0.016	0.0023	0.0053	0.071	0.0036	(0.002)	.	0.0052	0.0053	0.025	0.033	.	0.033	.	(0.0008)
74X HAG	2.80	(0.002)	0.0032	.	0.0639	0.0018	.	0.629	0.0029	.	.	0.0090	0.0133	(0.0009)	0.077	.	2.10	(0.0008)	2.73
74X CA8B	2.47	.	0.0144	.	0.0172	0.0101	0.0202	0.950	0.0043	0.0020	0.101	0.0062	0.0020	0.010	0.084	.	0.0180	.	.
74X CA9-21	1.12	.	0.017	0.0024	0.0362	0.0015	.	0.100	0.0022	.	.	0.017	0.0039	0.0026	0.036	.	0.078	.	.
74X EF	0.667	(0.0012)	0.0092	.	0.0099	0.0003	.	2.94	0.0008	.	.	0.0074	0.0069	(0.0012)	0.0248	.	0.0168	0.0008	(0.0054)
74X AMF	0.496	(0.0012)	0.0038	.	0.190	0.0061	.	3.07	(0.0006)	.	.	0.0082	0.0260	(0.0016)	0.126	.	1.064	(0.0013)	(0.0055)
74X CA1-21	0.44	0.032	.	0.0047	0.014	0.006	.	0.681	0.0026	.	.	0.0031	(0.0003)	.	0.079	.	0.0190	.	.
74X CA6-21	0.32	.	0.014	0.0046	0.011	(0.0007)	.	0.624	0.0098	.	0.0042	0.028	0.0242	.	0.026	.	0.012	.	0.0005
74X WS-21	0.309	.	0.010	.	0.007	0.0015	.	4.62	0.0015	.	.	0.007	0.0057	.	0.040	.	1.50	.	0.0007
74X HNF	0.160	0.0011	0.016	.	0.042	0.0046	.	4.12	0.020	.	.	0.0052	0.195	(0.001)	0.0050	.	0.038	0.0024	0.0068
74X HNE	0.143	0.005	0.010	.	0.122	0.0057	.	3.82	0.010	.	.	.	0.185	(0.002)	0.0404	last	0.037	0.0016	(0.0009)
74X HNG	0.160	(0.001)	0.016	.	0.043	0.0046	.	4.12	(0.014)	.	.	0.0052	0.195	(0.001)	0.0050	.	0.036	0.0024	(0.007)
74X OAA	0.100	(0.0007)	0.080	(0.0001)	1.065	0.00063	.	3.41	0.007	.	.	0.0034	0.0025	0.0072	0.128	.	0.0098	.	(0.002)
74X HBG	0.086	(0.0026)	0.045	.	0.038	0.0103	.	4.49	0.0138	.	.	0.0179	1.22	(0.002)	0.056	.	4.81	0.0038	(0.02)
74X GE2A	0.079	0.068	.	.	.	0.0086	.	0.713	.	0.479	.	.	0.031	.	0.0467	.	.	.	.
74X GE1A	0.052	0.065	.	.	.	0.0059	.	0.662	.	0.046	.	.	0.0289	.	0.0339	.	.	.	.
74X TCF	0.039	(0.001)	0.024	.	0.106	0.0150	.	4.99	0.0031	.	.	0.0215	0.0167	(0.002)	0.183	.	0.124	0.0473	0.004
74X BZ1A	0.004	0.0021	0.0119	.	3.03	0.0012	.	0.026	0.011	.	.	.	0.0097	.	0.0238	.	0.031	.	8.27

RM TIN - SILVER ALLOYS

37 mm Ø x 12 mm

Number	Ag	Bi	Cu	Ge	Hg	In	Ni	P	Pb	Sb	Sn	Zn
NF 46-3	5.0 #	0.25	0.030	# = segregation in Ag noted				.	0.21	0.059	Rem	(0.017)
NF 56-5	4.49	0.029	0.54	.	0.0024	.	.	0.006	0.26	.	Rem	.
NF 56-6	4.24	0.096	0.80	.	0.009	.	.	0.012	0.024	.	Rem	.
NF 46-2	4.1	0.095	0.096	.	.	.	.	.	0.059	0.11	Rem	(0.007)
NF 57-2	4.01	.	0.46	.	0.0002	.	.	0.006	<0.001	.	Rem	.
NF 56-2	3.77	0.50	0.60	.	0.0004	.	.	0.009	0.051	.	Rem	.
NF 56-3	3.53	.	0.4	.	0.014	.	.	0.003	0.009	0.50	Rem	.
NF 56-4	3.26	0.20	0.30	.	0.0045	.	.	0.021	0.22	.	Rem	.
NF 46-1	3.1	0.05	0.19	.	.	.	.	.	0.043	0.205	Rem	(0.015)
NF 57-1	3.00	0.004	0.49	.	0.0016	.	.	0.004	0.076	.	Rem	.
NF 9-1	3.00	0.048	0.073	.	.	.	.	.	Rem	0.51	59.90	.
NF 61-4	2.58	.	.	.	.	.	.	.	Rem	.	62.0	.
NF 63-6	2.56	.	0.50	0.042	.	<0.001	0.0073	.	0.009	.	Rem	.
NF 61-3	2.33	.	.	.	.	.	.	.	Rem	.	62.0	.
NF 61-2	1.81	.	.	.	.	.	.	.	Rem	.	62.0	.
NF 61-1	1.54	.	.	.	.	.	.	.	Rem	.	62.0	.
NF 63-4	1.50	.	0.194	0.025	.	0.027	0.12	.	0.012	.	Rem	.
NF 63-2	1.02	.	0.104	0.052	.	0.005	0.027	.	0.18	.	Rem	.
NF 63-5	1.01	.	0.51	0.010	.	0.11	0.065	.	0.018	.	Rem	.
NF 9-3	1.00	0.25	0.010	.	.	.	.	.	Rem	0.23	63.60	.
NF 63-1	0.74	.	0.077	0.079	.	0.200	0.068	.	0.009	.	Rem	.
NF 58-3	0.51	0.077	0.59	.	0.0043	.	.	0.010	0.040	.	Rem	.
NF 58-1	0.32	0.12	0.69	.	0.0003	.	.	0.001	0.085	.	Rem	.
NF 58-2	0.21	0.095	0.79	.	0.0024	.	.	0.006	0.008	.	Rem	.

CRM TIN BASE SETS

available in sets only, as grouped

Number	Ag	Al	As	Au	Bi	Cd	Cu	Fe	In	Ni	Pb	Sb	Sn	Zn
IMN LBA 1	0.632	.	0.0459	0.0115	0.230	0.00085	0.282	0.0195	0.208	0.0055	0.228	0.0517	Rem	0.0032
IMN LBA 2	0.697	(0.0029)	0.0314	0.0259	0.175	0.0052	0.487	0.0182	0.127	0.0107	0.319	0.0979	Rem	0.0047
IMN LBA 3	0.0971	0.0022	0.0239	0.0468	0.0989	0.0039	0.885	0.0057	0.0949	0.0224	0.141	0.142	Rem	0.0020
IMN LBA 4	0.0976	0.0061	(0.0086)	0.0632	0.0364	0.0058	1.21	0.0114	0.0503	0.0320	0.0862	0.457	Rem	0.0006
IMN LBA 5	0.214	.	(0.0090)	0.691	0.325	0.0053	0.763	0.0098	0.0228	0.0346	0.0579	0.286	Rem	(0.0009)
IMN LCA 1	0.210	<0.0012	0.0494	0.0677	0.269	0.0093	.	.	0.141	.	0.229	0.490	Rem	.
IMN LCA 2	0.158	.	0.0864	0.0542	0.146	0.0073	2.67	0.0155	0.0610	0.0210	0.0773	0.138	Rem	0.0016
IMN LCA 3	0.107	(0.0011)	0.0285	0.0260	0.100	0.0025	3.53	0.0143	0.0081	0.0102	0.137	0.101	Rem	0.0042
IMN LCA 4	0.0545	(0.0023)	0.0145	0.0100	0.0403	0.0115	4.51	0.0101	0.0442	0.0056	0.0890	0.0479	Rem	0.0103
IMN LCA 5	0.221	.	0.0386	0.0670	0.263	0.0006	1.52	0.0295	0.0533	0.0315	0.232	0.458	Rem	0.0011
IMN L89 1	.	.	0.019	.	0.012	0.19	3.20	0.18	.	0.010	0.072	5.66	Rem	0.0099
IMN L89 2	.	.	0.037	.	0.026	0.091	4.15	0.086	.	0.031	0.13	6.39	Rem	0.0059
IMN L89 3	.	.	0.065	.	0.052	0.041	3.49	0.058	.	0.090	0.29	7.41	Rem	0.0042
IMN L89 4	.	.	0.12	.	0.099	0.021	2.81	0.028	.	0.16	0.52	8.14	Rem	0.0020
IMN L89 5	.	.	0.18	.	0.20	0.011	2.12	0.013	.	0.33	1.11	8.86	Rem	.
IMN L89 6	.	.	0.029	.	0.014	0.19	4.51	0.17	.	0.014	0.20	8.03	Rem	0.0096
IMN LA 1	.	.	0.012	.	0.014	1.41	2.45	0.012	.	0.011	3.18	6.79	Rem	0.0016
IMN LA 2	.	.	0.092	.	0.033	0.88	3.84	0.018	.	0.094	2.17	7.81	Rem	.
IMN LA 3	.	.	0.24	.	0.059	0.50	8.13	0.059	.	0.28	1.19	10.22	Rem	0.0095
IMN LA 4	.	.	0.43	.	0.085	0.096	6.95	0.080	.	0.45	0.41	11.66	Rem	.
IMN LA 5	.	.	0.54	.	0.099	0.011	5.45	0.096	.	0.53	0.070	13.58	Rem	0.0020
IMN L 1	.	.	0.051	.	0.17	0.0020	0.11	.	.	.	Rem	0.52	56.06	0.00093
IMN L 2	.	.	0.034	.	0.11	0.0043	0.075	(0.011)	.	.	Rem	0.35	59.09	0.0019
IMN L 3	.	.	0.092	.	0.22	0.0065	0.034	(0.023)	.	.	Rem	0.14	60.18	0.0064
IMN L 4	.	.	0.017	.	0.055	0.0080	0.013	(0.0085)	.	.	Rem	0.079	62.81	0.0011
IMN L 5	.	.	0.0035	.	0.014	0.0097	0.0037	.	.	.	Rem	0.011	64.96	0.0056
Number	Ag	Al	As	Au	Bi	Cd	Cu	Fe	In	Ni	Pb	Sb	Sn	Zn

CRM TITANIUM

Number	Al	B	C	Co	Cr	Cu	Fe	H	Mn	Mo	N	Nb	Ni	O
BS T-4B	0.038	(0.0004)	(0.03)	(0.009)	0.0095	(0.005)	(0.16)	0.0020	(0.0007)	(0.002)	(0.006)	(0.012)	(0.010)	0.370
IARM 312B	0.018	(0.001)	0.0092	(0.002)	0.010	(0.003)	0.072	0.0004	(0.001)	(0.003)	0.007	(0.001)	0.019	0.128
IARM 303B	(0.015)	<0.001	0.035	<0.002	0.0018	(0.002)	0.120	(0.0008)	(0.001)	(0.002)	0.017	(0.006)	(0.0013)	0.176
IARM 361A	(0.013)	(0.0005)	(0.012)	(0.002)	0.008	(0.003)	0.095	(0.0027)	(0.005)	0.288	(0.006)	(0.004)	0.88	0.15
IARM Ti64-18	(0.0020)	.	0.053	(0.0006)	0.0017	(0.0012)	0.164	0.0019	0.0011	(0.0007)	(0.003)	(0.002)	0.0023	0.34

17025

Number	P	Pd	Ru	S	Si	Sn	Ti	V	W	Y	Zr	Grade	mm Ø x H
BS T-4B	.	.	.	(0.0007)	(0.006)	(0.009)	99.5	0.009	<0.05	.	(0.0010)	Ti CP 4	38 x ~7 or 19+ mm
IARM 312B	(0.002)	(0.005)	(0.001)	(0.0008)	(0.006)	(0.004)	(99.7)	0.009	(0.005)	(0.001)	0.0014	Ti CP 4.1	31 x 2
IARM 303B	0.13	<0.001	<0.001	<0.002	(0.006)	(0.006)	(99.6)	(0.0023)	<0.002	<0.001	(0.0028)	Ti CP 7	31 x 2
IARM 361A	(0.003)	(0.002)	(0.0006)	(0.004)	(0.012)	(0.004)	(98.5)	(0.006)	(0.003)	(0.0004)	(0.0016)	Ti CP 12	31 x 2 or 18
IARM Ti64-18	0.0010	.	.	(0.0014)	.	0.019	(99.5)	(0.0005)	(0.0010)	.	0.0005	Ti CP 4	38 x ~2 or 18

TITANIUM ALLOYS, chart 1 of 2

= class, where 1 = CRM and 2 = RM analysis listed in mass %

#	Number	Al	V	C	Cr	Cu	Fe	H	N	O	Mn	Mo	Ni	Si	Sn	Zr
1	IARM 269B	7.86	1.03	(0.014)	(0.0014)	(0.0023)	0.071	0.007	(0.006)	0.090	0.0071	0.98	(0.001)	(0.025)	0.008	(0.002)
1	NCS HS93704-5	6.78	3.85	0.023	.	.	0.131	.	.	.	.	.	.	0.085	.	.
1	58A ZB03002	6.54	3.61	0.014	.	.	0.066	.	0.016	.	.	.	<0.003	0.024	.	.
1	IARM Ti64-18	6.52	4.08	(0.034)	(0.013)	.	0.19	(0.0031)	(0.025)	0.181	.	(0.004)	0.011	(0.011)	(0.003)	.
1	TL 3001	6.471	4.330	0.0098	0.0024	.	0.1993	.	.	.	0.0025	.	.	.	.	.
1	SRM 654b	6.34	4.31	.	0.025	0.008	0.23	(0.002)	.	(0.17)	.	0.013	0.028	0.045	0.023	0.008
1	BS T-5B	6.25	4.19	(0.054)	0.018	(0.004)	0.23	0.0018	0.026	0.161	<0.05	(0.014)	0.025	(0.018)	0.010	(0.010)
1	NCS HS11904	6.24	4.19	0.0093	(0.016)	(0.006)	0.191	.	.	.	.	.	.	0.018	.	.
1	IARM Ti64ELI-18	6.11	4.01	0.033	(0.004)	(0.002)	0.167	(0.0021)	(0.006)	0.118	(0.0014)	.	(0.003)	(0.014)	(0.022)	.
1	BCR 089	5.97	3.976	.	.	.	.	.	.	.	.	.	.	.	.	.
1	58A CP03004	5.88	1.61	0.017	0.028	0.0085	0.074	.	.	.	0.027	3.58	.	0.059	0.0085	0.024
2	AA Ti64-150	4.50	4.7	.	0.0221	0.019	0.16	.	Bi:0.0040	.	0.0148	0.0174	0.019	0.035	0.0189	0.029
1	IARM Ti662-18	5.61	5.35	0.007	0.046	0.46	0.510	0.0089	0.021	0.19	(0.005)	0.0031	0.039	0.011	2.01	(0.0011)
1	IARM Ti662-19	5.58	5.53	0.0084	0.0050	0.47	0.52	0.0048	0.022	0.19	0.0013	0.0015	0.0032	(0.006)	2.03	(0.0008)
1	NCS HS93704-3	5.38	3.41	0.095	.	.	0.239	.	.	.	.	.	.	0.115	.	.
1	58A CP03003	5.21	4.89	0.014	0.997	.	1.01	.	.	.	.	4.87	.	0.038	.	0.02
1	IARM Ti42515-18	3.99	2.53	0.0067	0.015	(0.0022)	1.58	0.0018	0.0026	0.25	(0.006)	(0.0014)	0.009	0.011	(0.004)	(0.0019)
1	IARM Ti1023-18	3.31	9.75	(0.032)	(0.016)	(0.006)	1.98	(0.002)	(0.005)	0.109	(0.0024)	(0.003)	0.009	(0.018)	.	.
1	BS 10-2-3	3.22	9.74	(0.033)	0.023	0.0067	2.01	0.0045	(0.006)	0.110	(0.004)	0.0027	0.022	(0.023)	(0.002)	<0.005
1	58A SY03003	3.14	14.98	0.01	2.84	.	0.05	(0.001)	(0.02)	(0.013)	.	.	.	.	3.17	.
1	58A SY03004	3.13	2.82	0.01	.	.	0.042	(0.001)	(0.01)	(0.1)	.	.	.	.	.	.
1	SRM 1128	3.06	15.13	0.011	2.96	.	0.134	.	.	.	.	.	.	.	3.04	.
1	IARM 261E	3.05	2.51	0.012	0.016	0.0025	0.18	(0.0005)	0.006	0.084	(0.001)	0.003	0.018	0.007	0.005	(0.003)
1	IARM 261C	3.05	2.46	0.011	0.014	0.003	0.180	0.001	0.005	0.085	(0.003)	0.004	0.016	0.007	0.006	0.003
1	IARM 344B	3.03	14.7	0.0095	2.91	(0.0024)	0.118	(0.007)	(0.016)	0.118	(0.003)	(0.006)	0.021	(0.03)	3.01	(0.002)
1	IARM 261D	3.02	2.50	0.011	0.016	0.0028	0.185	(0.0005)	0.0051	0.083	(0.002)	0.003	0.018	0.008	0.005	0.003
1	IARM 261B	2.98	2.23	0.011	0.016	0.003	0.19	(0.001)	0.004	0.083	(0.003)	0.004	0.023	0.008	0.004	(0.002)

#	Number	Al	V	C	Cr	Cu	Fe	H	N	O	Mn	Mo	Ni	Si	Sn	Zr
Number	B	Co	Nb	P	Pd	Ru	S	Ta	Ti	W	Y	Units				
IARM 269B	(<0.001)	(<0.0005)	(0.004)	(0.003)	(<0.005)	(0.004)	(0.003)	(<0.005)	(89.9)	(0.001)	(<0.001)	31 mm Ø x 2 or 18 mm				
NCS HS93704-5	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm				
58A ZB03002	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 30 mm				
IARM Ti64-18	.	.	.	.	.	.	.	.	(89.0)	.	.	31 mm Ø x 2 mm				
TL 3001	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 20 mm				
SRM 654b	.	.	.	.	.	.	(0.001)	.	.	.	.	31 mm Ø x 19 mm				
BS T-5B	.	(0.003)	.	.	.	.	0.0009	.	89.0	<0.005	<u>17025</u>	38 mm Ø x ~7 or 19+ mm				
NCS HS11904	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 30 mm				
IARM Ti64ELI-18	.	.	.	.	.	.	.	.	(89.7)	.	.	31 mm Ø x 2 or 18 mm				
BCR 089	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 20 mm				
58A CP03004	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 35 mm				
AA Ti64-150	0.016	0.014	0.016	Er:0.0094	0.016	0.015	Hf:0.0153	0.016	Mg:(0.004)	.	0.005	~38 mm Ø x ~25 mm				
IARM Ti662-18	.	.	.	.	.	.	.	.	85.8	.	.	31 mm Ø x 2 or 18 mm				
IARM Ti662-19	.	(0.00026)	.	(0.003)	.	.	(0.002)	.	(85.7)	.	.	31 mm Ø x 2 or 18 mm				
NCS HS93704-3	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm				
58A CP03003	.	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 35 mm				
IARM Ti42515-18	.	(0.0020)	(0.0016)	.	.	.	.	.	(91.6)	.	.	31 mm Ø x 2 or 18 mm				
IARM Ti1023-18	.	.	.	.	.	.	.	.	84.8	.	.	31 mm Ø x 2 or 18 mm				
BS 10-2-3	<0.005	(0.002)	.	(0.0017)	.	As:(0.002)	0.0012	<u>17025</u>	84.8	<0.005	Sb:(0.0003)	46 mm Ø x 19+ mm				
58A SY03003	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 30 mm				
58A SY03004	.	.	.	.	.	.	.	.	.	.	<0.001	36 mm Ø x 30 mm				
SRM 1128	.	.	.	.	.	.	.	.	.	.	.	35 mm Ø x 19 mm				
IARM 261E	0.0003	(0.0004)	(0.005)	<0.003	(0.002)	(0.001)	(0.001)	.	(94.1)	(0.001)	(0.001)	31 mm Ø x 2 or 18 mm				
IARM 261C	0.0004	(0.005)	(0.003)	(0.003)	(0.002)	(0.001)	(0.001)	.	(94.1)	(0.001)	(0.0004)	31 mm Ø x 2 or 18 mm				
IARM 344B	<0.001	<0.004	(0.003)	<0.003	<0.03	<0.02	<0.003	<0.04	(76.0)	<0.03	<0.006	31 mm Ø x 2 or 18 mm				
IARM 261D	0.0003	<0.001	(0.003)	<0.004	(0.002)	(0.0005)	(0.001)	(0.0005)	(94.2)	(0.001)	(0.0005)	31 mm Ø x 2 or 18 mm				
IARM 261B	0.0004	<0.004	(0.002)	(0.004)	.	(0.001)	(0.0004)	.	(94.4)	(0.003)	(0.0004)	31 mm Ø x 2 or 18 mm				
Number	B	Co	Nb	P	Pd	Ru	S	Ta	Ti	W	Y	Units				

= class, where 1 = CRM and 2 = RM

analysis listed in mass %

* Provisional Analysis

#	Number	Al	V	C	Cr	Fe	H	Mn	Mo	N	Nb	O	Si	Sn	Ti	Zr
1	58A SY03008-6	7.64	.	0.12	.	0.369	.	.	2.27	.	.	.	0.446	.	.	0.63
1	58A SY03001-6	7.15	.	0.0098	.	0.051	.	.	2.0	.	2.02	.	0.253	.	.	1.01
1	58A SY03008-5	7.05	.	0.093	.	0.325	.	.	2.54	.	.	.	0.389	.	.	0.83
1	NCS HS11903	6.74	.	0.012	.	0.097	.	.	3.37	.	.	.	0.261	.	.	1.52
1	58A SY03008-4	6.61	.	0.081	.	0.301	.	.	2.83	.	.	.	0.354	.	.	1.21
1	58A SY03001-5	6.45	.	0.02	.	0.122	.	.	1.49	.	2.46	.	0.202	.	.	1.54
1	58A ZB03001	6.38	.	0.0074	.	0.08	.	.	3.22	0.01	.	.	0.26	.	.	1.75
1	58A SY03008-3	6.25	.	0.069	.	0.288	.	.	3.46	.	.	.	0.298	.	.	1.6
1	IARM 300E	6.16	(0.03)	0.008	(0.007)	0.17	(0.001)	(<0.02)	(0.0028)	0.0059	6.85	0.180	(0.017)	(0.005)	(86.5)	(<0.02)
1	58A SY03007	6.14	.	0.061	.	0.253	.	.	3.25	.	.	.	0.298	.	.	1.64
1	IARM Ti6242-18	6.11	.	(0.007)	.	0.025	(0.0022)	.	2.02	(0.004)	.	0.121	0.077	2.06	(85.5)	4.05
1	IARM 300B	6.09	(0.004)	0.0081	0.0174	0.175	0.0025	(0.006)	0.0013	0.0030	6.84	0.171	0.016	(0.004)	(86.3)	(0.013)
1	IARM 300D	6.06	(0.03)	(0.010)	(0.006)	0.183	(0.001)	(<0.005)	0.0019	(0.005)	6.82	0.166	(0.021)	(0.005)	(86.7)	(0.005)
1	58A SY03001-4	6.03	.	0.049	.	0.187	.	.	1.02	.	2.76	.	0.149	.	.	1.93
1	58A SY03002	5.99	.	0.01	1.22	0.05	(0.001)	.	2.89	(0.01)	1.97	(0.13)	0.067	2.24	.	1.99
1	IARM 300C	5.97	0.030	(0.010)	0.008	0.181	(0.0006)	(0.003)	0.0023	0.0061	6.80	0.174	0.018	(0.006)	(86.7)	(0.005)
1	IARM 300A	5.96	(0.005)	0.007	0.0097	0.191	0.0018	0.0012	0.0009	0.0033	6.86	0.162	0.018	(0.007)	86.71	(0.003)
1	IARM 336A	5.9	0.005	0.005	(0.002)	0.115	0.0022	.	6.16	0.0015	.	0.102	0.019	2.03	.	3.92
1	58A SY03008-2	5.59	.	0.049	.	0.233	.	.	3.79	.	.	.	0.242	.	.	1.96
1	58A SY03001-3	5.55	.	0.06	.	0.246	.	.	0.595	.	3.3	.	0.1	.	.	2.31
1	IARM 271A	5.28	0.09	0.026	0.016	0.31	0.013	(0.002)	0.011	0.012	.	0.16	0.021	2.49	.	0.015
1	IARM 271B	5.21	0.057	0.0128	0.010	0.196	0.0139	0.0036	0.0063	0.013	(0.005)	0.155	(0.010)	2.52	(91.9)	0.059
1	58A SY03001-2	5.1	.	0.084	.	0.313	.	.	0.297	.	3.63	.	0.043	.	.	2.74
1	58A SY03001-1	4.62	.	0.124	.	0.347	.	.	0.103	.	3.94	.	0.007	.	.	2.94
1	58A SY03008-1	4.59	.	0.015	.	0.189	.	.	4.74	.	.	.	0.149	.	.	2.45
1	IARM 280A	4.11	0.023	0.005	0.0055	0.044	0.0015	(0.002)	4.01	0.0014	(0.001)	0.19	0.47	2.07	.	(0.002)
1	IARM 367A	2.02	(0.005)	(0.014)	0.012	0.064	0.0030	1.61	(0.0023)	0.0074	(<0.01)	0.105	(0.011)	0.0019	(96.1)	(0.003)
1	BS T-24A 17025	0.0029	1.29	0.010	0.51	0.54	0.0077	4.7	0.51	0.0054	(0.003)	0.079	<0.03	0.020	91.7	(0.002)
1	SRM 643	.	.	.	.	.	.	11.6	.	.	.	.	.	.	.	.
1	SRM 642	.	.	.	.	.	.	9.0	.	.	.	.	.	.	.	.
1	SRM 641	.	.	.	.	.	.	6.6	.	.	.	.	.	.	.	.
#	Number	Al	V	C	Cr	Fe	H	Mn	Mo	N	Nb	O	Si	Sn	Ti	Zr

Number	B	Co	Cu	Mg	Ni	P	Pb	Pd	Ru	S	Sb	Ta	W	Y	Units
58A SY03008-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
58A SY03001-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
58A SY03008-5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
NCS HS11903	.	.	.	.	.	.	.	.	.	.	.	.	.	.	46 mm Ø x 30 mm
58A SY03008-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
58A SY03001-5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
58A ZB03001	.	.	.	.	<0.005	.	<0.001	.	.	.	.	.	.	.	40 mm Ø x 30 mm
58A SY03008-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
IARM 300E	(<0.002)	(0.004)	(<0.02)	(<0.001)	(0.011)	(<0.001)	(<0.0001)	(<0.001)	(<0.01)	(<0.001)	(<0.001)	(0.006)	(<0.002)	(0.003)	31 mm Ø x 2 or 18 mm
58A SY03007	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
IARM Ti6242-18	.	.	.	.	0.0038	.	.	.	.	.	.	.	.	.	31 mm Ø x 2 or 18 mm
IARM 300B	(0.0012)	(0.002)	(0.014)	.	0.012	.	.	(0.005)	.	(0.001)	.	(0.005)	.	.	31 mm Ø x 2 or 18 mm
IARM 300D	(0.001)	(0.004)	(0.003)	(<0.001)	0.013	(<0.002)	(<0.0005)	(<0.005)	(<0.001)	(0.001)	(0.0004)	(0.005)	(<0.002)	(0.003)	31 mm Ø x 2 or 18 mm
58A SY03001-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
58A SY03002	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 30 mm last
IARM 300C	(0.0006)	(0.001)	(0.003)	(<0.001)	(0.014)	(<0.001)	(<0.0001)	(<0.005)	.	(0.0005)	(0.0005)	(0.005)	(<0.002)	(0.002)	31 mm Ø x 2 or 18 mm
IARM 300A	(0.0008)	(0.001)	0.0039	(0.0004)	0.0081	(0.001)	.	(0.002)	(<0.02)	0.0008	.	(0.004)	(<0.002)	(0.0004)	31 mm Ø x 2 or 18 mm
IARM 336A	(0.001)	(0.002)	(0.002)	.	(0.002)	.	.	.	.	(0.002)	.	.	(0.004)	(0.0003)	31 mm Ø x 2 mm
58A SY03008-2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
58A SY03001-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
IARM 271A	.	.	0.004	.	0.035	(0.002)	.	.	.	(0.002)	.	.	.	.	31 mm Ø x 2 mm last
IARM 271B	(0.0012)	(0.001)	0.0068	(0.001)	0.0089	(0.011)	.	(0.011)	(0.003)	(0.001)	.	(0.0104)	(0.0021)	(0.00018)	31 mm Ø x 2 or 18 mm
58A SY03001-2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
58A SY03001-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
58A SY03008-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	36 mm Ø x 25 mm
IARM 280A	.	(0.002)	0.003	.	0.012	.	.	(0.002)	.	(0.001)	.	.	.	(0.0003)	31 mm Ø x 2 or 18 mm
IARM 367A	(<0.001)	(<0.002)	(0.002)	(<0.001)	(0.013)	(<0.005)	(<0.001)	(<0.01)	(<0.01)	(0.0012)	(<0.0005)	(<0.005)	(<0.002)	(<0.001)	31 mm Ø x 2 or 18 mm
BS T-24A 17025	(0.0003)	(0.004)	(0.03)	(0.0006)	(0.005)	(0.0008)	.	.	.	0.0023	.	.	0.60	.	32 mm Ø x -12 or 19+ mm
SRM 643	.	.	.	.	.	.	.	.	.	.	.	.	.	.	32 mm Ø x 19 mm
SRM 642	.	.	.	.	.	.	.	.	.	.	.	.	.	.	32 mm Ø x 19 mm last
SRM 641	.	.	.	.	.	.	.	.	.	.	.	.	.	.	32 mm Ø x 19 mm
Number	B	Co	Cu	Mg	Ni	P	Pb	Pd	Ru	S	Sb	Ta	W	Y	Units

ZINC

= class, where 1 = CRM and 2 = RM

analysis listed in mass %

Trace = informational values such as (<0.001) or lower

#	Number	Pb	Al	Cd	Cu	Fe	In	Mg	Mn	Ni	Sb	Sn	Tl
1	41X Z6A	0.031	0.0096	0.0093	0.0088	(0.002)	0.0228	<0.0005	0.0002	0.0002	.	0.0038	.
1	41X Z5N	0.0286	0.0243	0.0165	0.0109	0.0262	0.0057	0.0107	0.0049	0.0051	0.0054	0.0063	0.0068
1	ERM-EB325	0.0142	.	0.00947	0.00475	0.00561	.	.	.	.	.	0.00461	0.00368
1	41X Z11A	0.0077	0.0261	0.0155	0.0116	0.0019	0.0345	.	.	.	0.0026	0.0072	(0.0010)
1	41X Z3M	0.00502	0.00158	0.00327	0.00345	0.00605	0.00233	(0.00034)	0.00524	0.00209	0.00167	0.00297	0.00210
2	BS SP-5	0.005	0.0003	<0.0004	<0.001	<0.001	.	<0.002	.	.	<0.001	0.0010	.
1	ERM-EB323	0.00486	.	0.000651	0.00189	0.00113	.	.	.	.	.	0.00187	0.00108
1	BCR 327	0.004094	.	0.03014	(0.000056)	0.01440	.	.	.	.	.	.	.
1	BCR 326	0.003070	Trace	0.02030	0.01048	0.02648	.	.	.	.	.	.	.
2	BS SP-A	0.003	0.051	.	<0.0005	0.011	.	.	.	.	0.099	<0.001	.
1	ERM-EB324	0.00261	.	0.00489	0.000987	0.00585	.	.	.	.	.	0.00098	0.00199
2	BCS 194e	0.002	.	.	.	0.001	.	.	.	.	.	.	.
1	BAM M601	0.00157	<0.00005	0.000055	0.000189	0.000220	<0.000005	.	.	.	.	.	0.000225
1	ERM-EB322	0.00150	.	0.001508	0.000589	0.00191	.	.	.	.	.	0.00056	0.000528
1	SRM 683	0.00111	.	0.00011	0.00059	0.00022	Trace	.	Trace	.	.	(0.000002)	(0.00002)
1	SRM 631	(0.001)	0.50	0.0002	0.0013	0.005	0.0023	Trace	0.00015	Trace	.	0.0001	.
1	BCR 321	0.000485	<0.00007	(0.000023)	(0.000097)	(0.000222)	<0.00002	.	.	.	.	<0.00005	0.000078
1	SRM 682 *	.	(<0.000003)	(0.00001)	0.0000042	(0.00001)	.	(<0.00001)	Trace	(<0.00001)	.	(0.000002)	(<0.00002)

Number	Ag	Bi	Cr	Ga	Ge	Hg	Si	Zn	Melt °C	Units
41X Z6A	.	0.0122	(0.0001)	.	.	.	.	.	.	50 mm Ø x 20 mm
41X Z5N	.	0.0056	.	.	.	0.0050	.	.	.	~50 mm Ø x 20 mm
ERM-EB325	.	.	.	.	.	.	.	.	.	60 mm Ø x 30 mm
41X Z11A	.	0.0189	.	.	.	(0.0009)	.	.	.	50 mm Ø x 20 mm
41X Z3M	.	0.00315	.	.	.	0.00289	.	.	.	~50 mm Ø x ~20 mm
BS SP-5	.	.	.	.	.	.	.	.	.	37 mm Ø x 12 mm
ERM-EB323	.	.	.	.	.	.	.	.	.	60 mm Ø x 30 mm
BCR 327	.	.	.	.	.	.	.	.	.	80 mm Ø x 20 mm
BCR 326	.	.	.	.	.	.	.	.	.	80 mm Ø x 20 mm
BS SP-A	.	.	.	.	.	.	.	.	.	38 mm Ø x 14 mm last of stock
ERM-EB324	.	.	.	.	.	.	.	.	.	60 mm Ø x 30 mm
BCS 194e	.	.	.	.	.	.	.	99.99	419.5	300 g(4.5 x 3.5 x 3 cms)
BAM M601	.	.	.	.	.	.	.	.	.	45 mm Ø x 30 mm
ERM-EB322	.	.	.	.	.	.	.	.	.	60 mm Ø x 30 mm
SRM 683	0.00013	.	.	Trace	.	.	.	.	.	Cylinder segment 57mm Ø x 25mm x 19mm
SRM 631	Trace	.	0.0001	(0.002)	(0.0002)	.	.	.	.	45 mm x 45 mm x 19 mm
BCR 321	.	.	.	.	.	.	.	.	.	80 mm Ø x 20 mm
SRM 682 *	(0.000002)	.	(<0.000006)	.	.	.	(<0.00005)	.	.	Cylinder segment 57mm Ø x 25mm x 19mm

* SRM 682 has trace informational B, Be, C, Ca, Cl, F, K, Li, N, and Nb.

CRM ZINC SETS

available in sets only, as grouped

Number	Al	Cd	Cu	Fe	Pb	Sn	Ti	Zn	Units
IMN ZE 1	0.012	0.0019	0.011	0.020	0.018	0.0018	.	Rem	Discs 40 mm Ø x 25 mm
IMN ZE 2	0.0035	0.0031	(0.00037)	0.0052	0.0078	0.0074	.	Rem	
IMN ZE 3	0.025	0.0050	0.0032	.	0.0052	0.015	.	Rem	
IMN ZE 4	.	0.00023	0.013	(0.00035)	0.0012	0.0017	.	Rem	
IMN ZE 5	0.0011	0.0060	0.0049	0.011	0.0004	0.00045	.	Rem	
IMN ZL 1	0.0190	0.0365	0.342	0.00072	0.00498	0.0364	0.00745	Rem	Discs 40 mm Ø x 25 mm
IMN ZL 2	0.0119	0.0241	0.573	0.0174	0.00923	0.0420	0.114	Rem	
IMN ZL 3	0.00388	0.00492	0.201	0.00496	0.0247	0.00788	0.238	Rem	
IMN ZL 4	0.0497	0.0115	0.114	0.00879	0.0351	0.0114	0.394	Rem	
IMN ZL 5	0.0518	0.00085	0.0115	0.0299	0.0363	0.0011	0.598	Rem	
IMN ZA 1	.	0.0042	(0.0032)	0.00167	0.025	0.0038	.	Rem	Rods 10 mm Ø x 100 mm
IMN ZA 2	.	0.0029	0.0013	0.0061	0.011	0.0012	.	Rem	
IMN ZA 3	.	0.00092	0.00011	0.00078	0.0028	0.00036	.	Rem	
IMN ZA 4	.	0.00049	0.00032	0.00040	0.0016	0.00011	.	Rem	

CRM ZINC ROHS MONITOR

cast 50 mm Ø x 20 mm

Number	Cd	Cr	Hg	Pb
41X ZSC6A	0.215	<0.0002	0.029	0.0077
41X ZSC3A	0.119	0.0148	0.0021	0.0273
41X ZSC1A	0.0288	0.0039	0.026	0.0621
41X ZSC4A	0.0131	0.0299	0.050	0.156
41X ZSC2A	0.0016	0.0036	0.0053	0.111

CRM ZAMAK (MAZAK) SPECIFICATIONS AND SUGGESTED SAMPLES

42X, 43X: ~50 mm Ø x ~15-20 mm ERM: 39 mm Ø x 39 mm BCR: 80 mm Ø x 20 mm SRM: 44 mm x 44 mm x 19 mm

Number	Al	Cu	Mg	Ni	Cd	Cr	Fe	Mn	Pb	Sn
Zamak 2	3.9-4.3	2.6-2.9	0.025-0.05	.	<0.003	.	<0.075	.	<0.004	<0.002
43X Z7A	3.68	3.14	0.062	0.0005	0.00092	0.0003	0.029	0.0025	0.0058	0.0031
43X Z4C	4.79	2.69	0.0480	0.0258	0.0033	.	0.0017	0.0153	0.0062	0.0030
Zamak 5	3.9-4.3	0.75-1.25	0.030-0.06	.	<0.003	.	<0.075	.	<0.004	<0.002
Zamak 6	3.9-4.3	0.75-1.25	<0.05	.	<0.003	.	<0.075	.	<0.004	<0.002
43X Z3M	3.40	1.499	0.114	0.0062	0.0109	0.0046	(0.042)	0.0013	0.0077	0.0058
BCR 360	3.427	1.234	0.0705	0.0267	0.00595	.	.	.	0.00739	0.00330
SRM 630	4.30	0.976	0.030	0.0027	0.0048	0.0031	0.023	0.0106	0.0083	0.0040
ERM-EB602	4.08	0.812	0.0415	0.00025	0.00011	.	0.00073	.	0.00195	0.00010
BCR 361	4.068	0.798	.	.	(0.000080)	.	0.001034	.	0.000531	0.00463
43X Z1L	4.48	0.720	0.0345	0.0069	0.0004	.	0.0009	0.0075	0.0011	(0.0005)
SRM 628	4.59	0.611	0.0094	0.030	0.0040	0.0087	0.066	0.0091	0.0045	0.0017
BCR 357	4.227	0.5849	0.0273	0.000982	0.000283	.	0.00257	.	0.00138	0.000351
Zamak 3	3.9-4.3	<0.10	0.025-0.05	.	<0.003	.	<0.075	.	<0.004	<0.002
Zamak 7	3.9-4.3	<0.10	0.010-0.020	0.005-0.02	<0.002	.	<0.075	.	<0.002	<0.001
BCR 356	4.434	0.3944	0.01323	0.000343	0.000073	.	0.00315	.	0.000987	(0.000032)
42X Z12A	4.717	0.156	0.0488	0.0413	0.00277	0.00063	0.0457	0.0483	0.0079	0.0022
SRM 627	3.88	0.132	0.031	0.0029	0.0051	0.0038	0.023	0.014	0.0082	0.0042
BCR 355	3.443	0.1035	0.0786	0.0268	0.00581	.	.	.	0.00569	0.00291
42X Z3K	3.53	0.100	0.060	0.030	0.0023	.	0.014	0.0077	0.0033	<0.001
42X Z4J	3.55	0.063	0.058	0.0177	0.0076	.	0.012	0.0077	0.0113	0.0060
SRM 626	3.56	0.056	0.020	0.047	0.0016	0.0395	0.103	0.048	0.0022	0.0012
SRM 625	3.06	0.034	0.070	0.0184	0.0007	0.0128	0.036	0.031	0.0014	0.0006
BCR 354	3.726	0.03123	0.0602	0.00831	0.00297	.	.	.	0.00308	0.00141
BCR 352	4.150	0.003126	0.02830	0.000674	0.000288	.	.	.	(0.00064)	0.00030
BCR 351	4.355	0.001213	0.01310	(0.00019)	(0.000021)	.	.	.	0.000450	<0.0001
Zamak 8	7.8-9.0	0.70-1.40	0.015-0.030	<0.02	<0.005	.	<0.1	.	<0.005	<0.003
43X Z14F	7.98	1.238	0.0123	0.0058	0.00567	0.0037	0.0025	(0.0003)	0.0019	0.0005

Number	Be	Bi	Ce	In	La	Sb	Si	Ti	Tl
Zamak 2	.	.	.	.	.	.	.	.	.
43X Z7A	0.0194	(0.0009)	.	.	.	0.0016	.	0.067	.
43X Z4C	.	0.0113	.	.	.	(0.0023)	(0.0012)	.	.
Zamak 5	.	.	.	.	.	.	.	.	.
Zamak 6	.	.	.	.	.	.	.	.	.
43X Z3M	.	0.0092	.	.	.	0.0029	.	.	.
BCR 360	.	.	.	0.00298	.	.	.	.	0.00259
SRM 630	.	.	.	.	.	.	0.022	.	.
ERM-EB602	.	.	.	.	.	.	0.00114	0.00048	.
BCR 361	.	.	.	(0.00002)	.	.	.	.	0.00374
43X Z1L Ag:0.0037	.	(0.0008)	.	.	.	(0.0006)	.	.	.
SRM 628	.	.	.	.	.	.	0.008	.	.
BCR 357	.	.	.	0.000330	.	.	.	.	0.000276
Zamak 3	.	.	.	.	.	.	.	.	.
Zamak 7	.	.	.	.	.	.	.	.	.
BCR 356	.	.	.	<0.00002	.	.	.	.	0.000079
42X Z12A	.	.	0.0116	0.0068	0.0084	0.0070	.	.	0.0076
SRM 627	.	.	.	.	.	.	0.021	.	.
BCR 355	.	.	.	0.00246	.	.	.	.	0.002325
42X Z3K	.	.	0.0067	.	0.0029	.	0.0011	.	.
42X Z4J	.	.	0.020	0.0016	0.020	(0.0029)	.	.	(0.0025)
SRM 626	.	.	.	.	.	.	0.042	.	.
SRM 625	.	.	.	.	.	.	0.017	.	.
BCR 354	.	.	.	0.00098	.	.	.	.	0.001101
BCR 352	.	.	.	0.000302	.	.	.	.	0.00032
BCR 351	.	.	.	<0.00002	.	.	.	.	0.000074
Zamak 8	.	.	.	.	.	.	<0.03	.	.
43X Z14F	.	0.0106	.	.	.	0.0105	(0.0001)	(0.0001)	.

CRM ZAMAK SET

SOLD IN SET/4 ONLY

40 mm Ø x 25 mm

Number	Al	Cd	Cu	Fe	Mg	Ni	Pb	Si	Sn
IMN ZG 1	3.07	0.00048	1.34	0.0083	0.074	0.0067	0.009	0.036	0.0068
IMN ZG 2	3.56	0.0049	0.72	.	0.048	0.0025	0.0065	0.024	0.0048
IMN ZG 3	4.00	0.0028	0.11	0.011	0.028	0.001	0.0033	0.01	0.00067
IMN ZG 4	4.64	0.011	(0.0089)	0.016	0.00055	0.00042	0.0013	(0.0047)	0.0021

ZINC BINARY AND TERNARY SAMPLES

= class, where 1 = CRM and 2 = RM analysis in mass % cast

#	Number	Al	Mn	Mg	Pb	Sb	Units
1	SRM 1741	0.5242	.	.	0.1571	.	50 mm Ø x 12 mm
2	41X ZMA0.5	0.50	.	0.52	.	.	~40 mm Ø x ~15 mm
1	SRM 1740	0.4177	.	.	0.0691	.	50 mm Ø x 12 mm
1	SRM 1738	0.1014	.	.	0.0101	.	50 mm Ø x 12 mm

RM ZINC - ALUMINUM - ANTIMONY ALLOYS

cast some Sb segregation in below series, last of stock 40 mm Ø x 15 mm

Number	Al	Sb	Bi	Cd	Cu	Fe	Mg	Pb	Sn
44X Z4A	20.3	6.7	0.016	0.011	0.007	0.011	0.008	0.032	0.018

CRM ZINC ALLOY SETS AND SINGLES

~40 mm Ø x ~25 mm

Number	Al	Bi	Cd	Cu	Fe	Mg	Mn	Ni	Pb	Sb	Sn	Ti	Zn	Availability
IMN ZK 1	11.789	0.200	0.0021	1.538	.	0.0009	.	.	0.0031	0.127	0.00085	.	.	set or single
IMN ZK 2	10.572	0.169	0.0031	3.119	.	0.0040	0.0137	.	0.0121	0.102	0.0015	.	.	set
IMN ZK 3	9.767	0.102	0.0071	3.996	.	0.0307	.	.	0.0226	0.0674	0.00267	.	.	set
IMN ZK 4	8.371	0.0188	0.0121	5.487	.	0.0640	.	.	0.0334	0.0121	0.00491	.	.	set
IMN ZK 5	6.476	0.0020	0.0207	6.663	.	0.0410	0.589	.	0.0507	0.0025	0.0065	.	.	set
IMN ZF 1	0.018	.	0.0041	0.013	0.020	.	.	.	0.0012	.	0.013	0.0014	Rem	set or single
IMN ZF 2	0.011	.	0.0055	0.46	0.011	.	.	.	0.0082	.	0.0077	0.11	Rem	set
IMN ZF 3	0.0033	.	.	0.098	0.0018	.	.	.	.	.	0.0022	0.021	Rem	set or single
IMN ZF 4	0.0058	.	0.00053	0.86	0.00045	.	.	.	0.0091	.	0.0017	0.20	Rem	set or single
IMN ZF 5	.	.	0.0088	0.011	0.0081	.	.	.	0.026	.	.	0.013	Rem	set or single

ZINC ALLOYS, chart 1 of 2														
X: ~50 mm Ø x ~15-20 mm CAN: 50 mm Ø x 12 mm SRM: 44 mm x 44 mm x 19 mm														
Number	Al	Bi	Cd	Cr	Cu	Fe	Mg	Mn	Ni	Pb	Sb	Si	Sn	Ti
CAN NZA-1	28.70	.	0.00098	.	1.51	0.046	0.020	.	.	0.0030	.	.	0.0069	.
CAN NZA-4	26.65	.	0.0029	.	2.45	0.027	0.0106	.	.	0.0101	.	.	0.0087	.
CAN NZA-3	25.99	.	0.0064	.	2.00	0.066	0.0049	.	.	0.0045	.	.	0.0034	.
43X Z21D	23.9	.	0.0010	.	2.68	0.0067	0.0142	0.0022	0.0021	0.0087	.	0.0191	0.0007	.
CAN NZA-2	23.81	.	0.0047	.	3.00	0.021	0.029	.	.	0.0076	.	.	0.0045	.
CAN NZA-7	13.17	.	0.00020	.	0.212	(0.016)	0.052	.	.	0.0136	.	.	0.0116	.
42X Z16A	12.28	.	0.0045	0.0007	0.235	0.033	0.105	0.0028	0.0039	0.0090	.	0.011	0.0034	.
43X Z11F	11.12	0.0046	0.0175	(0.0003)	0.335	0.015	0.0357	0.0032	0.0014	0.0202	0.0009	0.0013	0.0145	.
CAN NZA-5	10.85	.	0.0095	.	1.04	(0.016)	0.021	.	.	0.0012	.	.	0.0017	.
43X GALF4A	10.71	.	0.0108	.	2.470	0.074	0.0062	.	.	0.0122	.	.	0.0110	.
43X Z12E	10.38	0.0021	0.0045	0.0008	0.791	0.037	0.0287	0.0026	0.0033	0.0041	0.0032	(0.002)	0.0017	0.0050
42X Z15A	9.99	.	0.0023	0.0003	0.0028	0.026	0.0026	0.0037	0.0017	0.0074	0.0006	.	0.0006	.
43X Z13E	9.01	0.0014	0.0072	0.0004	1.113	0.0045	0.0198	0.0025	0.0036	0.0086	0.0020	(0.0012)	0.0035	.
43X GALF3A	8.37	.	0.0018	.	0.507	0.018	0.0099	.	.	0.0032	.	.	0.0025	.
43X Z15D	8.33	0.005	0.0036	.	1.18	0.005	0.0236	0.0067	0.0082	0.0029	(0.0010)	.	0.0020	.
CAN NZA-6	7.54	.	0.0147	.	3.17	(0.0105)	0.00037	.	.	0.0809	.	.	0.0051	.
42X Z8A	7.03	.	0.0003	(0.0002)	0.0215	.	0.0033	0.0014	0.0019	0.0025	.	0.013	(0.0023)	(0.0001)
42X Z9A	5.58	.	0.0054	.	0.0070	.	0.0464	0.0006	(0.0003)	0.0021	.	(0.004)	(0.00035)	0.020
43X GALF2A	5.40	.	0.0043	.	0.0585	0.032	0.0504	.	.	0.0050	.	.	0.0040	.
SRM 629	5.15	.	0.0155	0.0008	1.50	0.017	0.094	0.0017	0.0075	0.0135	.	0.078	0.012	.
42X Z10A	4.93	.	0.0029	.	0.314	0.0009	0.0020	0.0183	0.0099	0.0065	0.0022	.	0.0033	.
43X GALF1A	4.68	.	0.0499	.	4.39	0.061	0.0999	.	.	0.0505	.	.	0.0514	.
42X Z7D	4.37	.	0.0021	.	0.0240	0.023	0.0094	0.0046	0.0080	0.0040	.	0.0022	0.0025	.
43X SC4A	4.35	.	0.0058	0.009	1.122	0.022	0.093	0.044	0.0249	0.0064	.	0.022	0.0056	.
43X Z10A	3.99	.	0.0014	0.00027	2.97	0.007	0.0403	0.0050	0.0036	0.0046	.	0.009	0.0012	.
41X GLV16-19	3.98	(0.0004)	.	.	(0.009)	0.014	2.08	0.0006	.	0.0023	0.0013	0.0020	.	.
43X SC1A	3.75	.	0.0011	0.0082	1.903	0.073	0.740	0.0201	0.0161	0.0150	.	0.022	0.0082	.
43X SC2A	3.41	.	0.0018	0.023	4.80	0.046	0.498	0.0183	0.0096	0.0097	.	0.0133	0.0031	.
42X Z11A	3.19	.	0.0020	0.0016	0.093	(0.036)	0.0329	0.0196	0.0241	0.0058	0.0047	.	0.0017	.
43X Z9A	3.17	0.0033	0.0034	0.0034	4.82	0.076	0.0472	0.0108	0.0027	0.0078	0.0033	.	0.0020	0.0012
43X Z5B	3.164	0.0148	0.0030	.	5.92	0.10	0.0144	0.0061	0.0056	0.0029	0.065	.	(0.0004)	.
43X SC3A	3.14	.	0.0028	0.0108	3.03	0.018	0.257	0.0337	0.0261	0.0066	.	0.022	0.0078	.
43X Z8A	2.51	.	0.00090	0.00024	0.481	(0.0017)	0.00155	0.00021	0.00033	0.0027	.	.	(0.0005)	.
41X GLV15-19	2.49	0.0004	.	.	0.0029	0.027	1.05	0.0015	.	0.0028	(0.0007)	(0.0026)	.	.
IMN ZM 1	1.264	.	0.0017	.	0.0055	0.0016	0.123	0.0055	1.260	0.0072	0.00042	.	0.123	.
41X 0336 Zn2N	1.000	0.0043	0.147	.	0.216	0.0283	0.0568	0.0227	0.0047	0.492	0.0019	.	0.0547	.
41X GLV14-19	0.96	(0.0004)	.	.	0.009	0.033	3.01	0.0008	.	0.0030	.	(0.003)	.	.
Number	Al	Bi	Cd	Cr	Cu	Fe	Mg	Mn	Ni	Pb	Sb	Si	Sn	Ti

Number	Ag	As	Be	Ce	In	La	Tl	Zr	Units
CAN NZA-1	.	.	.	.	.	.	.	.	50 mm Ø x 12 mm
CAN NZA-4	.	.	.	.	.	.	.	.	50 mm Ø x 12 mm
CAN NZA-3	.	.	.	.	.	.	.	.	50 mm Ø x 12 mm
43X Z21D	.	(0.0004)	.	.	.	.	.	.	~50 mm Ø x ~15-20 mm
CAN NZA-2	.	.	.	.	.	.	.	.	50 mm Ø x 12 mm
CAN NZA-7	.	.	.	.	.	.	.	.	50 mm Ø x 12 mm
42X Z16A	.	.	.	.	0.0051	.	(0.003)	.	~50 mm Ø x ~15-20 mm
43X Z11F	.	.	.	.	.	.	.	.	~50 mm Ø x ~15-20 mm
CAN NZA-5	.	.	.	.	.	.	.	.	50 mm Ø x 12 mm
43X GALF4A	.	.	.	0.079	.	0.041	.	.	~50 mm Ø x ~15-20 mm
43X Z12E	.	.	.	.	.	.	.	.	~50 mm Ø x ~15-20 mm
42X Z15A	.	.	.	.	0.0024	.	.	.	~50 mm Ø x ~15-20 mm
43X Z13E	.	.	.	.	.	.	.	.	~50 mm Ø x ~15-20 mm
43X GALF3A	.	.	.	0.0152	.	0.0076	.	.	~50 mm Ø x ~15-20 mm
43X Z15D	.	.	.	.	.	.	.	.	~50 mm Ø x ~15-20 mm
CAN NZA-6	.	.	.	.	.	.	.	.	50 mm Ø x 12 mm
42X Z8A	.	.	.	0.0081	.	0.0079	.	.	~50 mm Ø x ~15-20 mm
42X Z9A	.	.	.	0.0047	.	0.0044	.	0.011	~50 mm Ø x ~15-20 mm
43X GALF2A	.	.	.	0.0318	.	0.0158	.	.	~50 mm Ø x ~15-20 mm
SRM 629	.	.	.	.	.	.	.	.	44 mm x 44 mm x 19 mm
42X Z10A	.	.	.	.	0.0018	.	0.0013	.	~50 mm Ø x ~15-20 mm
41X GLV16-19	0.00038	0.0010	.	.	.	.	.	V:0.0005	40 mm Ø x 15 mm
43X GALF1A	.	.	.	0.0569	.	0.0284	.	.	~50 mm Ø x ~15-20 mm
42X Z7D	.	.	.	0.0581	.	0.025	.	.	~50 mm Ø x ~15-20 mm
43X SC4A	.	.	.	.	.	.	.	.	~50 mm Ø x ~15-20 mm
43X Z10A	.	.	.	.	.	.	.	.	~50 mm Ø x ~15-20 mm
43X ZSC1A	.	.	.	.	.	.	.	.	~50 mm Ø x ~15-20 mm
43X SC2A	.	.	.	.	.	.	.	.	~50 mm Ø x ~15-20 mm
42X Z11A	.	.	.	0.0014	0.0037	(0.0009)	0.0047	.	~50 mm Ø x ~15-20 mm
43X Z9A	.	.	0.0010	.	.	.	.	.	~50 mm Ø x ~15-20 mm
43X Z5B	0.0254	(0.0005)	.	.	.	.	.	.	~50 mm Ø x ~15-20 mm
43X ZSC3A	.	.	.	.	.	.	.	.	~50 mm Ø x ~15-20 mm
43X Z8	.	.	.	.	.	.	.	.	~50 mm Ø x ~15-20 mm
41X GLV15-19	0.0003	(0.0013)	.	.	.	.	.	V:(0.0018)	40 mm Ø x 15 mm
IMN ZM 1	.	.	.	.	.	.	.	.	40 mm Ø x 25 mm
41X 0336 Zn2N	0.0131	.	.	.	.	.	0.0016	.	~50 mm Ø x ~15-20 mm
41X GLV14-19	0.0003	(0.0013)	.	.	.	.	.	V:0.0004	40 mm Ø x 15 mm
Number	Ag	As	Be	Ce	In	La	Tl	Zr	Units

CRM ZINC ALLOYS, chart 2 of 2

41X CGL: 42 - 48 mm Ø x 20 mm other X: ~45--50 mm Ø x ~20 mm

Number	Al	Bi	Cd	Cr	Cu	Fe	Mg	Mn	Ni	Pb	Sb	Si	Sn	Ti
IMN ZM 2	0.856	.	0.0065	.	0.0520	0.0084	0.0826	0.0500	0.850	0.0497	0.0064	.	0.0836	.
41X GLV9B	0.790	0.0038	0.0039	.	0.0194	0.0056	0.0029	0.0038	0.0059	0.0032	0.0016	.	0.0012	.
41X GLV4F	0.507	0.0045	0.0074	.	0.0142	0.0045	0.0015	0.0257	0.034	0.0076	0.0245	.	0.0031	.
41X GLV6B	0.441	0.0254	0.0051	0.0007	0.0371	0.0020	.	0.00235	0.0007	0.097	0.0122	.	0.0155	.
IMN ZM 3	0.436	.	0.0252	.	0.474	0.0228	0.0411	0.460	0.455	0.438	0.0235	.	0.0432	.
41X GLV7B	0.397	0.0114	0.0006	.	0.0269	0.0051	0.0048	0.0008	0.0146	0.081	0.0036	.	0.0012	.
41X 0336 Zn3K	0.336	.	0.341	.	0.353	0.0456	0.147	0.0106	0.0022	0.0282	.	.	0.127	.
41X GLV1E	0.285	0.0045	0.0007	.	0.0188	(0.0008)	0.0021	.	0.0021	0.0175	0.0016	.	0.0049	.
41X CGLF	0.28	.	(0.0015)	.	(0.0005)	.	.	.	.	0.046	.	.	(<0.001)	.
41X GLV12A	0.168	0.0048	0.0048	.	0.010	0.0156	0.0042	0.0082	0.0090	0.0102	0.0064	.	0.0081	.
41X GLV2C	0.0905	0.0158	0.0037	0.0015	0.0057	0.0155	0.0006	0.0218	0.0053	0.0248	0.0049	.	0.0097	.
41X 2951 Zn3A	0.078	.	0.0062	0.184	1.89	.	0.0164	0.0018	0.0010	0.0065	.	.	(0.006)	0.133
IMN ZM 4	0.0489	.	0.0430	.	0.903	0.0541	0.0103	0.882	0.0534	0.817	0.0405	.	0.0150	.
41X 4380 Zn1D	0.039	0.0021	0.394	0.0007	0.178	0.0276	0.0032	0.0006	0.0058	0.0618	0.0019	.	0.0510	0.0004
IMN ZM 5	0.0035	.	0.0571	.	1.682	0.0819	0.00041	1.247	0.0064	1.137	0.0534	.	0.0015	.
41X 2951 Zn2A	0.032	.	0.0037	0.142	1.37	.	0.0123	0.0011	0.0027	0.0040	.	.	(0.0015)	0.209
41X 2951 Zn1A	0.029	.	0.0005	0.083	0.79	.	0.0029	0.0013	0.0038	0.0042	.	.	(0.0007)	0.278
41X 4380 Zn6D	0.0260	0.0047	0.0466	0.0064	0.0327	0.0307	0.0044	0.200	0.0073	0.427	(0.002)	.	0.101	0.0029
41X 4380 Zn5C	0.0215	0.0308	0.0571	0.0075	0.071	.	0.00165	0.035	0.00147	0.140	0.0061	.	0.0101	0.339
41X 0336 Zn1L	0.0177	.	0.0067	.	0.0088	0.0106	0.0062	0.0102	0.0009	1.007	.	.	0.0051	.
41X GLV5B	0.0139	0.0098	0.0136	.	0.0103	0.0443	0.0014	.	0.0025	0.0166	0.148	.	0.0172	.
41X Zn12A	0.0135	0.0050	0.0010	.	0.0056	0.0061	.	.	1.97	0.0172	.	.	0.141	.
IMN ZM 55	.	.	0.0652	.	1.309	0.0855	(0.00012)	1.102	0.0062	1.490	0.0880	.	0.0027	.

Number	Al	Bi	Cd	Cr	Cu	Fe	Mg	Mn	Ni	Pb	Sb	Si	Sn	Ti
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Number	Ag	As	Co	In	Tl	Units
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IMN ZM 2	.	.	.	.	.	40 mm Ø x 25 mm
41X GLV9B	.	.	0.0058	.	.	~45--50 mm Ø x ~20 mm
41X GLV4F	0.0047	(0.0005)	0.0048	.	.	~45--50 mm Ø x ~20 mm
41X GLV6B	.	.	0.0061	.	V: <0.0005	~45--50 mm Ø x ~20 mm
IMN ZM 3	.	.	.	.	.	40 mm Ø x 25 mm
41X GLV7B	0.0016	(0.0006)	0.0016	.	.	~45--50 mm Ø x ~20 mm
41X 0336 Zn3K	.	0.0003	.	.	.	~45--50 mm Ø x ~20 mm
41X GLV1E	.	(0.0004)	0.0008	.	.	~45--50 mm Ø x ~20 mm
41X CGLF	.	.	.	(<0.001)	(<0.001)	truncated cone, analytical face ~42mm base ~48mm ~21 mm height, last of stock
41X GLV12A	0.0054	.	0.0035	.	.	~45--50 mm Ø x ~20 mm
41X GLV2C	.	0.0017	0.0055	.	.	~45--50 mm Ø x ~20 mm
41X 2951 Zn3A	.	.	.	.	.	~45--50 mm Ø x ~20 mm
IMN ZM 4	.	.	.	.	.	40 mm Ø x 25 mm
41X 4380 Zn1D	0.0012	.	.	.	.	~45--50 mm Ø x ~20 mm
IMN ZM 5	.	.	.	.	.	40 mm Ø x 25 mm
41X 2951 Zn2A	.	.	.	.	.	~45--50 mm Ø x ~20 mm
41X 2951 Zn1A	.	.	.	.	.	~45--50 mm Ø x ~20 mm
41X 4380 Zn6D	0.0030	.	0.0091	.	.	~45--50 mm Ø x ~20 mm
41X 4380 Zn5C	.	.	.	.	.	~45--50 mm Ø x ~20 mm
41X 0336 Zn1L	.	0.0008	.	.	.	~45--50 mm Ø x ~20 mm
41X GLV5B	.	0.00044	0.0011	.	.	~45--50 mm Ø x ~20 mm
41X Zn12A	.	.	.	.	.	~45--50 mm Ø x ~20 mm
IMN ZM 55	.	.	.	.	.	40 mm Ø x 25 mm

Number	Ag	As	Co	In	Tl	Units
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CRM ZIRCONIUM ALLOYS

analysis listed in mass %

31 mm Ø x 2 or 18 mm

Number	Al	C	Cr	Cu	Fe	H	Hf	N	Nb	O	Sn	Ti
IARM Zr702-18	0.014	0.017	(0.009)	.	(0.09)	(0.0011)	0.84	(0.003)	.	0.141	(0.04)	(0.004)
IARM Zr705-18	.	0.009	0.007	(0.007)	{0.08}	{0.0012}	0.38	{0.005}	2.53	0.133	.	.