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CRM PURITY COPPER DISCS AND RODS

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

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

CRM ELECTROLYTIC COPPER ROD SET

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

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

CRM COPPER

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

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

COPPER WIRE FOR GLOBULE ARC WORK

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

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

CHILL CAST PHOSPHORUS DEOXIDIZED COPPER

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

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

CRM COPPER IN VARIOUS FORMS

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

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

CRM	COPPER RODS																			
analysis listed in mg/kg																			IMN: 6 mm Ø x 100 mm	SRM: ~6.5 mm Ø x 103 mm
Number	Ag	As	Bi	Cd	Co	Cr	Fe	Mn	Ni	O	P	Pb	S	Sb	Se	Sn	Te	Zn	Cu	
SRM 494	50	2.6	0.35	.	0.5	2.0	.	3.7	11.7	.	.	26.5	15	4.5	2.00	70	0.58	400	99.91	
IMN CS7R	13.7	0.9	<0.5	(0.02)	0.09	19.7	4.9	2.2	4.4	.	(2.4)	(0.9)	7.0	1.0	<1.0	0.5	<0.05	1.2	.	
SRM 495	12.2	1.6	0.50	.	.	6.0	.	5.3	5.4	.	.	3.2	13	8.0	0.63	1.5	0.32	12	99.94	
SRM 457	8.086	<2)	0.22	<1)	0.227	<2)	2.4	<0.1)	0.67	367	.	0.512	4	0.214	4.05	<0.1)	0.296	<3)	99.97	

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

BERYLLIUM ALLOY

= class, where 1 = CRM and 2 = RM

17025, 17034

#	Number	Be	Co	Ag	Al	Cr	Cu	Fe	Ni	Pb	Si	Sn	Zn	Alloy	Notes
2	CTIF 4584	2.53	0.04	.	0.033	.	97.05	0.120	0.015	(0.002)	0.166	0.022	0.022		Typical Analysis
2	CTIF 4872	1.93	0.400	.	0.059	(0.04)	97.00	0.107	0.103	0.019	0.16	0.044	0.119	172	Typical Analysis
2	BS 172Be-1	1.89	0.206	.	(0.02)	0.0032	97.68	0.052	0.039	(0.002)	0.055	0.033	0.0070	172	last of stock
1	IARM Cu172-19	1.89	0.0017	0.0011	0.032	0.0017	(97.6)	0.071	0.237	.	0.045	0.0007	.	172	
1	36X CBC4E	1.869	0.215	.	0.0258	.	97.47	0.0274	0.0080	0.329	0.048	0.002	0.003	173	
1	36X CBC3D	1.840	0.209	.	0.019	.	97.77	0.046	0.007	0.0025	0.039	0.0021	0.004		
1	BS 172Be-2	1.83	(0.06)	.	0.032	0.015	97.7	0.127	0.165	0.041	(0.029)	0.015	0.0057	172	<u>17025</u>
2	CTIF 4766	1.58	0.64	.	0.027	(0.2)	96.83	0.165	0.203	0.053	0.11	0.100	0.070		Typical Analysis
2	CTIF CuBeCo6	1.54	(1.9)	1.37	0.135	0.0576	93.09	0.109	(1.4)	0.0397	0.26	0.0135	0.0330		Typical Analysis
2	CTIF 4583	0.84	(0.002)	.	0.029	.	96.35	(0.15)	2.02	0.084	0.08	0.25	0.094		Typical Analysis
1	36X CBC6A	0.507	1.045	0.0015	0.0490	.	97.11	0.0243	1.132	0.0014	0.0263	0.0041	0.0010		
1	36X CBC2F	0.439	2.22	0.0013	0.0097	.	97.15	0.0076	0.121	(0.0008)	0.0257	(0.0007)	0.0018		
1	36X CBC5B	0.404	0.0084	0.0011	0.0104	.	97.61	0.0108	1.905	0.0015	0.004	0.0013	0.0010	175.1	
1	BS 17510	0.35	(0.024)	0.0014	0.042	(0.015)	97.6	0.042	1.70	0.0014	0.137	(0.004)	(0.005)	175.1	<u>17304</u>
2	CTIF 4873	0.10	0.86	.	0.069	0.080	98.60	0.135	0.050	(0.003)	0.071	(0.007)	(0.003)		Typical Analysis

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

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

CHROMIUM COPPER

= class, where 1 = CRM and 2 = RM

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

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

17025 last

17025

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

CRM CONVERTER COPPER DISC AND ROD SETS

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

Number	Ag	As	B	Bi	Co	Cu	Fe	Ni	P	Pb	S	Sb	Se	Sn	Te	Zn
IMN CP1	0.057	0.32	0.024	0.010	0.051	.	0.17	0.40	0.002	0.013	0.054	0.33	0.002	0.24	0.053	0.20
IMN CP2	0.042	0.32	0.033	0.013	0.033	.	0.10	0.20	0.050	0.086	0.036	0.24	0.041	0.14	0.036	0.19
IMN CP3	0.026	0.11	0.00003	0.0007	0.013	.	0.082	0.12	0.038	0.31	0.012	0.11	0.018	0.070	0.022	0.11
IMN CP4	0.016	0.050	0.0042	0.0042	0.011	.	0.046	0.040	0.020	0.28	0.0060	0.040	0.011	0.028	0.011	0.046
IMN CP5	0.0062	0.0056	(0.011)	0.0011	0.0061	.	0.016	0.0095	0.0050	(1.48)	0.0024	0.010	0.0060	0.0070	0.0064	0.0098
IMN CH6	0.18	.	.	.	0.18	Rem	0.028	0.40	.	0.50	.	.	.	.	.	0.19
IMN CH7	0.40	.	.	.	0.11	Rem	0.11	0.18	.	1.01	.	.	.	.	.	0.047
IMN CH8	0.039	.	.	.	0.020	Rem	0.0012	0.036	.	1.49	.	.	.	.	.	0.077
IMN CH9	0.010	.	.	.	0.0060	Rem	0.0060	0.010	.	1.97	.	.	.	.	.	0.015
IMN CG1	0.011	.	.	.	0.17	Rem	0.013	0.036	.	0.60	.	.	.	.	.	0.016
IMN CG2	0.25	.	.	.	0.098	Rem	0.015	0.011	.	0.30	.	.	.	.	.	0.026
IMN CG3	0.040	.	.	.	0.045	Rem	0.030	0.39	.	0.22	.	.	.	.	.	0.14
IMN CG4	0.10	.	.	.	0.057	Rem	0.25	0.23	.	0.11	.	.	.	.	.	0.12
IMN CG5	0.41	.	.	.	0.0079	Rem	0.069	0.10	.	0.053	.	.	.	.	.	0.18

CRM GILDING METAL

Number	Cu	Fe	Ni	P	Pb	Sn	Zn	method	Units
SRM 1114	96.4	0.01	0.021	0.009	0.012	0.02	3.4	wrought	31 mm Ø x 19 mm
SRM 1113	95.0	0.04	0.057	0.008	0.026	0.06	4.8	wrought	31 mm Ø x 19 mm
SRM 1112	93.3	0.07	0.10	0.009	0.057	0.12	6.3	wrought	31 mm Ø x 19 mm

CRM GILDING METAL SET

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

Number	Ag	Al	As	Be	Bi	Cd	Cu	Fe	Mn	Ni	P	Pb	S	Sb	Si	Sn	Te	Zn
IMN M11	0.0038	0.0400	0.0720	0.000091	0.00063	0.0230	95.69	0.2500	0.0030	0.0059	0.0280	0.0060	0.0430	0.000044	0.0032	0.1500	0.0065	3.57
IMN M12	0.0090	0.0550	0.0540	0.00085	0.00056	0.0160	93.35	0.1600	0.0081	0.0180	0.0220	0.0160	0.0490	0.0019	0.0120	0.1000	0.0110	6.19
IMN M13	0.0200	0.0150	0.0340	0.0019	0.0026	0.0110	91.46	0.0860	0.0350	0.0730	0.0150	0.0420	0.0230	.	0.0310	0.0670	0.0031	8.01
IMN M14	0.0260	0.0079	0.0031	0.0065	0.0026	0.0054	88.35	0.0410	0.0500	0.1400	0.0073	0.0700	0.0120	0.0006	0.0600	0.0130	0.0021	11.13
IMN M15	0.0330	0.0021	0.0150	0.0072	0.0043	0.0012	94.71	0.0150	0.0690	0.2500	0.0026	0.0960	0.0019	0.0096	0.0820	0.0040	.	4.44

GUN METAL

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

Number	Zn	Sn	Pb	Ni	Fe	Cu	Ag	Al	As	Bi	Co	Cr	Mn	P	S	Sb	Si
CRM																	
33X GM9A	13.81	2.93	6.91	0.710	0.090	75.1	0.0321	0.0052	0.0251	0.076	0.079	Cd:0.0072	.	0.0547	0.0153	0.184	(0.003)
33X GM4AD	5.90	3.02	5.27	1.482	0.0932	84.02	0.0206	0.0015	0.0228	0.0442	0.0077	.	0.00060	0.0034	0.034	0.0568	0.0010
33X GM8H	5.80	3.89	5.76	0.493	0.142	83.63	0.095	0.0052	0.0110	0.016	0.0151	0.0150	.	0.035	0.028	0.061	(0.003)
33X GM5P	5.66	4.48	5.18	0.728	0.127	83.39	0.0497	0.055	0.0498	0.018	0.0298	Cd:0.0048	Te:0.0075	0.0507	0.0411	0.072	0.0310
33X GM21B	4.96	4.50	7.53	0.197	0.693	78.86	0.701	0.173	0.333	0.459	Se:0.173	Cd:0.249	.	0.0697	0.0628	1.033	0.0213
33X GM20B	1.80	4.49	0.294	0.211	0.44	89.49	0.200	0.133	0.300	0.044	0.0211	Cd:0.020	0.040	0.060	2.41	.	.
33X GM7K	1.363	10.07	1.79	0.531	0.0178	85.69	0.0682	.	0.095	0.098	0.100	.	.	0.0050	0.0613	0.111	Te:0.0112
RM																	
CURM 71.31	4.27	4.38	6.44	2.07	0.098	82.30	0.052	0.045	0.11	0.027	last	<0.01	0.010	0.060	0.050	0.11	0.006
33X GM24A	3.67	3.85	3.35	0.0087	0.0083	88.88	0.0046	(0.0001)	0.0010	0.0009	.	(0.0013)	<0.0005	0.190	0.003	0.0012	0.0028
CURM 71.33	3.60	4.96	6.84	0.938	0.018	83.60	<0.002	<0.001	<0.001	<0.002	.	<0.0005	<0.0005	<0.001	<0.001	<0.002	<0.005
C71.34	1.55	8.20	2.47	<0.01	0.29	rem	0.025	0.007	0.18	0.029	last	0.03	0.05	0.020	0.16	0.071	0.04
CURM 71.34	1.54	8.19	2.48	<0.005	0.29	86.74	0.023	0.008	0.18	0.031	.	0.04	0.05	0.019	0.18	0.072	0.03

Number	Zn	Sn	Pb	Ni	Fe	Cu	Ag	Al	As	Bi	Co	Cr	Mn	P	S	Sb	Si
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CRM MANGANESE ALLOY SET

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

Number	Ag	As	Fe	Mn	Ni	P	Pb	Sb	Si	Sn	Zn
IMN CK1	0.012	0.013	0.029	1.06	0.44	0.0011	0.0021	0.0049	0.049	0.13	0.24
IMN CK2	0.0094	0.010	0.11	1.51	0.38	0.0022	0.0062	0.0015	0.091	.	0.14
IMN CK3	0.0066	0.0095	0.17	1.78	0.27	0.0043	0.0098	0.0026	0.033	0.075	0.095
IMN CK4	0.0041	0.0055	0.26	1.91	0.13	0.0056	0.017	0.0041	0.0025	0.042	0.065
IMN CK5	.	0.0015	0.29	2.30	0.011	.	.	0.0051	0.011	0.0048	0.033
IMN CK6	0.0012	0.0039	0.40	2.64	0.073	0.013	.	0.0052	0.21	0.025	0.034

CRM MAGNESIUM ALLOY SET

available in set only 40 mm Ø x 25 mm

Number	Mg
IMN CCB-1	0.00405
IMN CCB-2	0.0339
IMN CCB-3	0.241
IMN CCB-4	0.509
IMN CCB-5	0.748

NICKEL ALLOY, chart 2 of 2

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

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

CRM NICKEL ALLOY SETS

analysis listed in mass %

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

Number	Ni	Al	As	Bi	C	Cd	Co	Fe	Mg	Mn	P	Pb	S	Sb	Si	Sn	Zn	singles?
IMN NC1	23.17	.	0.0056	0.0011	0.0320	0.0142	0.0062	0.0501	0.0016	0.552	0.0147	0.0025	0.0709	0.0024	0.0854	0.0374	0.776	no
IMN NC2	24.21	0.0219	0.0104	0.0046	(0.0026)	0.0189	0.0115	0.290	0.0024	0.413	.	0.0021	0.0837	0.0049	0.196	0.0457	0.508	yes
IMN NC3	24.68	0.229	0.0167	0.0077	(0.0036)	0.0120	0.0282	0.106	0.0561	0.148	0.0312	0.0027	(0.0202)	0.0084	0.0609	0.0171	0.244	yes
IMN NC4	25.39	0.332	0.0251	0.0117	0.0500	0.0049	0.101	0.426	0.0170	0.0172	0.0113	0.0120	0.0022	0.0113	0.0197	0.0087	0.0099	yes
IMN NC5	25.82	0.0749	0.0427	0.0213	0.0050	0.0018	0.151	0.369	0.0861	0.0623	0.0222	0.0409	.	0.0161	0.0198	0.0044	0.0152	yes
IMN N1	25.38	.	.	.	.	0.0050	0.0056	.	0.0018	.	.	0.0019	.	.	0.0070	0.0089	0.019	yes
IMN N2	24.28	.	.	.	.	0.023	0.35	0.21	.	0.011	.	0.025	0.012	0.16	.	.	0.55	yes
IMN N3	22.57	.	.	.	.	0.055	1.77	0.50	.	0.020	.	0.062	0.023	0.33	.	.	0.30	yes
IMN N4	21.39	.	.	.	.	0.080	0.70	0.71	.	0.039	.	0.13	0.038	0.47	.	.	0.47	yes
IMN NA1	7.19	.	.	.	(0.020)	.	.	2.52	.	1.51	.	0.081	(0.081)	.	.	.	0.80	yes
IMN NA2	9.05	.	.	.	(0.023)	.	.	2.03	.	1.03	.	0.056	(0.065)	.	.	.	0.55	yes
IMN NA3	10.35	.	.	.	(0.019)	.	.	1.15	.	0.60	.	0.035	(0.036)	.	.	.	0.30	yes
IMN NA4	12.15	.	.	.	(0.012)	.	.	0.50	.	0.21	.	0.0066	(0.0069)	.	.	.	0.019	yes

CRM SEBILOY / ENVIROBRASS / FEDERALLOY

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

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

CRM PHOSPHORUS ALLOY

40 mm Ø x 25 mm

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

RM SILVER ALLOY

31 mm Ø x 2 or 18 mm

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

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

CRM SILVER ALLOY SET

available in set only 40 mm Ø x 25 mm

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

RM TIN COPPER

cast typical analysis

32X: 40 mm Ø x 15 mm

C: 50 mm Ø x 10-12 mm

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

CRM TIN COPPER SET

available in SET/5 or individually

40 mm Ø x 30 mm

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

CRM BRASS SETS

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

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

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

cast 50 mm Ø x 10 - 12 mm

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

last of stock
current batch

RM BRASS MUSHROOMS

chill cast typical analysis 60 mm Ø x 5 mm

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

BRASS

= class, where 1 = CRM and 2 = RM

CURM: cast 50 mm Ø x 10-12 mm
SRM: wrought 31 mm Ø x 19 mmPB: 45 mm Ø x 25 mm
others: chill cast ~38-43 mm Ø x ~15-18 mm

#	Number	Zn	Cu	Al	As	Bi	Fe	Mn	Ni	Pb	Sb	Si	Sn
1	31X B25C	42.2	55.6	0.48	0.027	0.061	0.014	0.128	0.255	0.272	0.075	0.235	0.62
1	31X B2N	39.1	60.2	0.161	0.0154	0.0150	0.122	0.0361	0.102	0.053	0.0121	.	0.0129
2	CURM 30.15	38.88	60.66	<0.001	.	.	0.50	<0.001	<0.001	<0.005	.	<0.005	<0.002
2	CURM 30.16	38.33	60.53	<0.001	.	.	1.14	<0.001	<0.001	<0.005	.	<0.005	<0.002
2	CURM 30.11	38.17	59.86	<0.001	.	.	0.002	0.23	1.70	0.005	.	<0.001	<0.002
1	IARM 75C	38.1	60.7	(0.003)	(0.005)	(0.0012)	(0.06)	(0.0024)	(0.013)	0.42	(0.007)	(0.005)	0.69
2	SRM 1107	37.3	61.2	.	.	.	0.037	.	0.098	0.18	.	.	1.04
1	31X TB3L	37.0	62.42	0.044	0.047	0.0085	0.040	0.034	0.031	0.118	0.053	0.020	0.133
1	31X TB1L	36.8	61.5	0.174	0.052	0.049	0.072	0.287	0.199	0.325	0.101	0.097	0.214
1	31X B10N	36.6	60.9	0.149	0.0099	0.021	0.135	0.160	1.56	0.022	0.0207	0.012	0.047
1	31X B3N	35.05	64.56	.	0.0104	0.0152	0.0408	0.0290	0.0171	0.085	0.0148	.	0.0394
1	31X TB4G	33.64	66.07	0.0041	0.0106	0.0058	0.0340	0.0013	0.0133	0.0246	0.0095	0.0203	0.0197
1	31X B5L	23.98	75.38	0.0138	0.0357	0.0088	0.038	(0.002)	0.0275	0.084	0.016	(0.005)	0.266
1	31X B22G	17.8	80.5	0.100	0.150	0.148	0.107	0.00076	0.142	0.197	0.147	0.152	0.225
1	31X B7L	15.34	84.22	0.0435	0.0054	0.0607	0.099	0.0088	0.0351	0.0416	0.0196	0.018	0.089
1	SRM 1110	15.2	84.5	.	.	.	0.033	.	0.053	0.033	.	.	0.051
1	SRM 1111	12.8	87.1	.	.	.	0.010	.	0.022	0.013	.	.	0.019
1	31X B9M	4.92	94.81	(0.0006)	0.0103	0.0059	0.0361	0.0006	0.0379	0.090	0.0089	.	0.062
2	PB MS10	.	84.26	.	0.014	0.37	0.28	0.016	0.025	0.020	(0.009)	0.12	0.052
1	BAM M396	.	65.49	0.223	0.0590	0.00032	0.0235	0.00445	0.0143	.	0.00061	.	.
1	IMN MF6	.	63.36	0.014	.	0.00025	0.010	0.051	0.038	0.0023	0.00084	0.30	0.010
#	Number	Zn	Cu	Al	As	Bi	Fe	Mn	Ni	Pb	Sb	Si	Sn

Number	Ag	B	C	Cd	Co	Cr	P	S	Se	Te
31X B25C	0.0025	.	.	0.00019	.	(0.0002)	0.116	.	.	.
31X B2N	0.0118	0.0029	.	0.0032	0.042	.	0.0191	.	.	0.0015
CURM 30.15	.	.	.	.	.	.	.	.	.	.
CURM 30.16	.	.	.	.	.	.	.	.	.	.
CURM 30.11	.	.	.	.	.	.	.	.	.	.
IARM 75C	.	<0.1	(0.002)	(0.0015)	(0.0007)	0.0009	(0.004)	(0.0015)	(0.005)	.
SRM 1107	.	.	.	.	.	.	.	.	.	.
31X TB3L	0.011	0.0014	.	0.0078	0.0043	.	.	.	.	0.0025
31X TB1L	0.061	0.0005	.	0.0122	0.0017	0.0024	0.0080	(0.002)	(0.0008)	(0.004)
31X B10N	0.0030	.	.	0.0005	0.0062	0.0006	0.033	.	(0.0009)	.
31X B3M	0.0247	0.0022	.	0.0040	0.0109	.	0.0421	.	.	0.0098
31X TB4G	.	(0.0004)	.	0.0032	0.0067	.	.	.	.	0.0035
31X B5L	.	(0.0009)	.	0.0040	0.0250	.	.	.	.	.
31X B22G	0.0015	0.0029	.	0.0130	0.059	(0.0006)	0.214	.	(0.0007)	.
31X B7L	.	0.0013	.	0.0064	0.0044	.	.	.	.	(0.002)
SRM 1110	.	.	.	.	.	.	.	.	.	.
SRM 1111	.	.	.	.	.	.	.	.	.	.
31X B9M	0.0065	(0.0005)	.	.	.	.	0.0047	.	0.0019	0.0181
PB MS10	.	.	.	.	.	.	.	.	last	.
BAM M396	.	.	.	0.00022	0.00012	0.00079	0.00089	.	<0.001	.
IMN MF6	.	.	.	.	.	.	0.0012	.	.	.
Number	Ag	B	C	Cd	Co	Cr	P	S	Se	Te

38 mm Ø x 30 mm

40 mm Ø x ~30 mm

CRM NICKEL AND PHOSPHOR BRASS

analysis listed in mass %

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

CRM NICKEL BRASS SETS

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

IMN WH, WM: 40 mm Ø x 25 mm

IMN WP: 40 mm Ø x 30 mm

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

SILICON BRASS

= class, where 1 = CRM and 2 = RM

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

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

CRM HIGH TENSILE BRASS

Number	Cu	Zn	Al	Fe	Mn	Si	As	C	Ni	P	Pb	S	Sb	Sn	Units
31X HT31B	67.00	17.06	6.82	3.01	5.69	0.0443	0.0005	0.0057	0.226	0.0030	0.0139	0.0007	E:0.0014	0.079	~40 mm Ø x ~15 mm
31X HT37A	60.33	34.69	0.0004	0.0344	2.88	1.38	0.0011	0.003	0.0105	0.003	0.623	<0.0005	0.0007	0.0116	40 mm Ø x 18 mm

RM BRONZE MUSHROOMS

chill cast

typical analysis

60 mm Ø x 5 mm

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

BRONZE

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

CRM ALUMINUM BRONZE SETS

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

40 mm Ø x ~25-30 mm

Table with columns: Number, Al, As, Bi, Cd, Co, Cr*, Fe, Mg*, Mn, Ni, P, Pb, S, Sb, Si, Sn, Zn, Singly?. Rows include IMN BF1, IMN BF2, IMN BF3, IMN BF4, IMN BF5, IMN BP1, IMN BP2, IMN BP3, IMN BP4, IMN BP5, IMN B01, IMN B02, IMN B03, IMN B04, IMN B05, IMN BJ1, IMN BJ2, IMN BJ3, IMN BJ4, IMN BJ5.

ALUMINUM BRONZE - LOW NICKEL

= class, where 1 = CRM and 2 = RM

Table with columns: #, Number, Al, Cu, As, Cr, Fe, Mg, Mn, Ni, P, Pb, Si, Sn, Zn. Rows include IARM Cu954-20, IARM Cu955-18, IARM Cu954-18, BS 624, BS 954A, HRT CU2018, VS BR1, VS BR4, 32X CA 7A, BS 623, IARM 79C, IARM 79B, BS 623A, VS BR2, CURM 51.14, CURM 51.13, BS 642B, BS 642C, C51.13, 32X 61400A, IARM Cu642-18, CURM 51.12, 32X CA12A, C51.12, CURM 51.11.

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

Table with columns: Number, Ag, Be, C, Co, N, O, S, Sb, Zr, Units. Rows include IARM Cu954-20, IARM Cu955-18, IARM Cu954-18, BS 624, BS 954A, HRT CU2018, VS BR1, VS BR4, 32X CA 7A, BS 623, IARM 79C, IARM 79B, BS 623A, VS BR2, CURM 51.14, CURM 51.13, BS 642B, BS 642C, C51.13, 32X 61400A, BS 642D, IARMCu642-18, CURM 51.12, 32X CA12A, C51.12, CURM 51.11.

ALUMINUM BRONZE - HIGH NICKEL

= class, where 1 = CRM and 2 = RM

#	Number	Al	Cu	As	Cr	Fe	Mg	Mn	Ni	P	Pb	Si	Sn	Zn
2	BS 955C	10.68	80.6	(<0.002)	.	4.04	.	0.06	4.31	0.012	0.003	0.025	0.003	0.15
1	IARM Cu954-21	10.55	85.1	.	0.022	3.66	0.0013	0.393	0.105	0.0031	0.012	0.029	0.0053	0.029
2	BS 954C	10.21	83.9	(0.006)	.	3.9	.	0.29	1.38	0.011	0.050	0.07	0.08	0.09
2	BS 954B	10.20	83.9	(0.005)	.	3.90	.	0.27	1.38	0.012	0.047	0.07	0.07	0.10
2	BS 630A	10.05	81.0	(0.002)	.	3.73	.	0.11	4.81	<0.01	0.0069	0.037	0.019	0.17
2	HRT CU2001	10.05	79.09	.	.	4.79	.	0.36	4.94	0.011	0.015	0.08	0.018	0.17
2	C52.51	10.0	Rem	.	<0.01	4.3	<0.01	<0.01	5.1	.	<0.01	<0.01	<0.01	0.02
2	HRT CU2009	9.93	78.88	.	.	3.73	.	0.29	6.22	0.010	0.037	0.19	0.020	0.54
1	IARM 334B	9.91	80.8	(0.003)	(0.004)	3.7	(0.001)	0.60	4.70	0.005	0.006	0.075	0.019	0.122
1	BS 630C	9.90	80.7	0.0007	0.0030	3.82	0.0011	0.325	4.82	0.0043	0.0093	0.064	0.0152	0.234
1	BS 630B	9.78	80.8	0.0007	0.0017	3.90	0.0009	0.281	4.88	0.0028	0.0056	0.0166	0.0289	0.254
1	IARM 334A	9.76	80.7	(0.004)	(0.01)	3.82	(0.001)	0.69	4.77	(0.005)	0.010	0.073	0.025	0.110
1	IARM 80D	9.67	(81.7)	(0.009)	(0.005)	2.99	(0.003)	0.346	5.01	(0.005)	(0.005)	0.025	0.093	(0.007)
1	VS BR3	9.6	.	.	.	4.00	.	0.227	3.85	(0.003)	0.007	0.071	0.005	0.009
2	BS CC954	9.28	84.0	0.003	.	3.61	.	0.353	1.12	0.013	0.13	0.092	0.061	1.30
2	C52.56	8.9	Rem	.	0.14	4.6	0.09	0.74	5.6	.	0.17	0.15	0.11	0.28
1	32X ALB 12A	8.29	82.90	.	.	1.094	0.0013	0.958	6.33	0.0101	0.0018	0.0202	0.310	0.0625
2	CURM 52.54	7.85	81.59	.	<0.005	3.31	<0.005	1.20	5.40	.	0.086	0.022	0.135	0.39
1	32X ALB 13A	7.09	84.96	.	.	1.171	.	5.39	1.381	0.009	(0.0009)	0.086	0.0072	0.0194
1	32X ALB 8E	6.38	77.17	0.145	0.36	5.54	0.015	1.562	6.68	0.171	0.071	0.603	0.312	0.352
1	32X ALB 8F	6.21	77.04	0.189	0.088	5.37	0.194	1.57	6.11	0.261	0.049	0.513	0.435	1.395

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

Number	Ag	Be	Bi	C	Co	S	Sb	Se	Units
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Need a larger size?
Most BS items are
available in any height.

RM ALUMINUM BRONZE MUSHROOMS

chill cast	typical analysis												60 mm Ø x 5 mm
Number	Al	Cu	Fe	Mn	Ni	Pb	Si	Sn	Zn	Bi	Cd	Cr	Mg
CTIF CA 36	12.60	77.25	2.93	0.131	6.33	0.0154	0.113	0.201	0.244	0.058	.	0.041	0.130
CTIF 2158-W	11.95	85.00	2.53	0.26	0.10	<0.005	0.015	<0.01	<0.01	.	.	.	.
CTIF 4065-P	11.85	81.20	3.40	0.075	3.18	0.03	0.034	0.18	0.03	.	.	.	.
CTIF CA 35	11.4	75.6	6.1	1.6	3.80	0.10	0.25	0.30	0.55	.	.	.	.
CTIF 2154-V	11.25	85.00	3.05	0.12	0.41	<0.005	0.015	<0.01	<0.01	.	.	.	.
CTIF CA 13	11.20	82.45	3.82	1.22	0.50	0.0230	0.11	(0.01)	0.65	.	.	.	.
CTIF CA 3	10.9	86.5	0.80	0.06	0.80	0.15	0.08	0.20	0.30	.	.	.	.
CTIF CA 21	10.82	81.9	3.45	0.30	3.09	0.05	0.07	0.07	0.100	.	0.0095	.	.
CTIF CA11	10.54	84.45	1.27	0.779	1.95	0.109	0.254	0.258	0.211	.	.	.	0.125
CTIF CA 22	10.45	80.50	2.51	0.745	4.54	0.0243	0.32	0.30	0.605	.	.	.	.
CTIF 3011-G	10.35	84.80	1.98	0.165	2.00	0.10	0.16	0.125	0.25	.	.	.	.
CTIF CA 27	10.25	81.1	2.81	1.195	3.88	0.11	0.127	0.054	0.428	.	0.012	.	.
CTIF CA 10	10.15	80.65	4.55	0.333	3.39	0.16	0.46	0.16	0.067	.	.	.	.
CTIF 3299-J	10.10	87.60	0.38	1.12	0.21	0.110	0.136	0.106	0.19	.	.	.	.
CTIF 3297-Y	10.00	87.45	1.88	0.03	.	0.11	0.15	0.10	0.27	.	.	.	.
CTIF CA37	9.84	76.79	6.85	0.752	4.98	0.0503	0.040	0.147	0.364	0.0118	.	0.085	0.077
CTIF 4149-G	9.84	84.95	2.00	0.21	1.96	0.15	0.18	0.34	0.37	.	.	.	.
CTIF 2152-S	9.78	85.05	3.99	0.42	0.68	<0.005	0.015	.	<0.01	.	.	.	.
CTIF 2151-R	9.43	84.75	4.48	0.73	0.56	<0.005	0.015	<0.01	<0.01	.	.	.	.
CTIF 3296-L	9.40	88.55	0.07	0.37	0.41	0.30	0.20	0.06	0.62	.	.	.	.
CTIF CA 31	9.15	76.5	3.18	3.27	7.51	0.020	0.064	0.063	0.145	.	.	.	0.02
CTIF CA 26	9.10	81.25	4.36	0.188	4.87	0.058	0.035	0.005	0.038	.	0.034	.	.
CTIF 3300-M	8.73	89.5	0.45	0.165	0.205	0.205	0.415	0.205	0.085	.	.	.	.
CTIF 3301-Z	8.10	87.30	4.00	0.26	0.125	0.032	0.057	0.028	0.06	.	.	.	.
CTIF 2794-H	8.0	90.3	0.82	<0.01	0.69	<0.01	0.048	0.105	<0.01	.	.	.	.
CTIF CA 20	8.00	87.15	0.79	1.85	1.18	0.18	0.17	0.19	0.41	.	0.05	.	.
CTIF CA 12	8.0	84.1	2.77	3.09	1.385	0.047	0.058	0.036	0.45	.	.	.	.
CTIF CA 25	7.97	79.12	6.10	0.51	5.74	0.03	0.084	0.177	0.252	.	.	.	.
CTIF CA 30	7.55	81.6	5.2	2.05	3.10	0.142	0.15	0.099	0.066	.	.	.	.
CTIF 3018-F	7.25	81.90	4.45	1.57	4.50	0.02	0.085	0.06	0.06	.	.	.	.
CTIF 3610-Q	7.10	82.32	3.98	0.045	5.40	0.23	0.065	0.25	0.51	.	0.090	.	.
Number	Al	Cu	Fe	Mn	Ni	Pb	Si	Sn	Zn	Bi	Cd	Cr	Mg

CRM BISMUTH BRONZE

Number	Bi	Cu	Ni	P	Pb	Sn	Zn	Al	Fe	O	S	Sb	Se	Units
IARM CuB1-18	4.51	88.98	0.58	0.049	0.015	5.58	0.47	(0.0012)	(0.0016)	(0.003)	(0.0020)	(0.003)	(0.0025)	31 mm Ø x 2 mm or 18 mm

MANGANESE BRONZE

= class, 1=CRM and 2=RM

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

BS 675: 38 Ø x 12 mm

IARM: 31 Ø x 2 or 18 mm

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

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

available in SET/5 or individually

analysis listed in mass %

40 mm Ø x ~30 mm

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

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

PHOSPHOR BRONZE

= class, where 1 = CRM and 2 = RM

Table with 16 columns: #, Number, P, Sn, Zn, Cu, Mn, Ni, Pb, Al, As, Fe, Mg, S, Sb, Si. It lists chemical compositions for various phosphor bronze grades including BS 510C, BS 544B, and BS 544C.

Table with 11 columns: Number, Ag, Bi, C, Co, Cr, N, O, Se, Units. This table provides mechanical properties and units for the phosphor bronze grades listed in the previous table.

SILICON BRONZE

= class, where 1 = CRM and 2 = RM

Table with 16 columns: #, Number, Si, Cu, Mn, Al, As, C, Cr, Fe, Ni, P, Pb, Sn, Zn. It lists chemical compositions for various silicon bronze grades including BS 655B, BS 655C, and BS 655A.

Table with 11 columns: Number, Be, Co, Mg, N, O, S, Sb, Zr, Units. This table provides mechanical properties and units for the silicon bronze grades listed in the previous table.

CRM

SILICON BRONZE SET

BH1 BH3 and BH6 set only, others ok individually

40 mm Ø x 25 mm

Table with 16 columns: Number, Al, As, Bi, Cu, Fe, Mg, Mn, Ni, P, Pb, S, Sb, Si, Sn, Zn. It lists chemical compositions for the CRM Silicon Bronze Set grades including IMN BH1 through IMN BH6.

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

= class, where 1 = CRM and 2 = RM

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

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

Number	Ag	As	Bi	C	Cd	Co	Cr	Mg	Se	Te	Units
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LEADED, TIN, AND LEADED TIN BRONZE CHART 2 of 2

= class, where 1 = CRM and 2 = RM

Table with columns: #, Number, Sn, Pb, Zn, Cu, Al, Fe, Mn, Ni, P, S, Sb, Si. Rows list various alloy compositions such as BS 929MOD, BS 903E, IARM Cu903-18, etc.

Table with columns: #, Number, Sn, Pb, Zn, Cu, Al, Fe, Mn, Ni, P, S, Sb, Si. This is a duplicate header for a second table.

Table with columns: Number, Ag, As, Bi, C, Cd, Co, Cr, Mg, Se, Te, Units. Rows provide detailed material specifications and units for various alloy classes, including BS 929MOD, BS 903E, IARM Cu903-18, BS 903B, etc.

Table with columns: Number, Ag, As, Bi, C, Cd, Co, Cr, Mg, Se, Te, Units. This is a duplicate header for the second part of the detailed specifications table.

CRM LEADED, TIN, AND LEADED TIN BRONZE DISC AND ROD SETS

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

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

COPPER ALLOY XRF SET

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

CDA Number	Cu	Al	Fe	Mn	Ni	Pb	Si	Sn	Zn	As	C	P	S	Sb	Be	Co
110	BS 110B	99.94	<0.0002	0.0005	<0.0001	<0.0002	0.0052	<0.0004	<0.0002	<0.0003	0.0007	<0.0006	0.00030	<0.0005	<1ppm	<1ppm
145	BS 14500	99.4	(0.0006)	0.0041	0.00004	0.0008	(0.002)	0.0002	0.004	(0.0005)	0.0005	0.0075	0.0033	(0.001)	(0.0001)	(0.0001)
172	BS 172Be-1	97.68	0.052	0.0010	0.039	(0.002)	0.055	0.033	0.0070	(0.001)	(0.001)	0.003	(0.0002)	0.008	1.89	0.206
360	BS 360A	61.42	<0.001	0.151	0.0007	0.058	2.51	<0.005	0.13	0.002	(0.0032)	0.001	(0.0003)	0.008	.	.
464	BS 464A	60.6	(0.001)	0.013	0.0002	0.004	0.056	<0.01	0.62	38.73	(0.0006)	0.012	0.001	(0.001)	.	.
482	BS 482A	60.0	(0.003)	0.020	<0.002	(0.007)	0.50	(0.002)	0.65	38.8	(0.0015)	<0.003	<0.002	0.0012	.	.
510	BS 510A	96.10	<0.002	0.005	<0.002	0.020	0.016	<0.003	4.6	0.21	(0.0006)	0.11	0.008	(0.003)	.	.
544	BS 544A	88.4	(0.0005)	0.092	<0.002	0.16	4.16	<0.002	4.42	0.11	0.003	0.021	0.038	0.040	.	.
623	BS 623A	88.13	9.12	2.19	0.273	0.146	0.001	0.014	0.002	(0.006)	(0.002)	<0.002	(0.0005)	<0.002	.	.
630	BS 630A	81.0	10.05	3.73	0.11	4.81	0.0069	0.037	0.019	(0.002)	0.005	<0.01	(0.001)	<0.001	.	.
642	BS 642A	91.0	6.70	0.17	0.005	0.025	0.001	1.80	0.018	<0.002	0.001	0.001	<0.001	(0.0002)	.	.
655	BS 655A	95.74	(0.002)	0.075	0.91	0.008	0.008	3.14	0.07	<0.002	(0.0006)	(0.004)	(0.0003)	<0.002	.	.
675	BS 675A	58.5	<0.002	1.12	0.32	0.019	0.074	(0.005)	0.80	<0.002	(0.0007)	0.010	(0.0005)	0.0011	.	.
706	BS 706A	87.60	(0.002)	1.30	0.66	10.18	0.008	<0.005	0.011	0.003	(0.0007)	0.006	0.012	0.0006	.	.
715	BS 715A	69.0	(0.01)	0.61	0.82	30.22	(0.007)	0.10	0.008	<0.0005	0.004	0.006	0.001	(0.003)	.	.
863	BS 863A	64.1	5.21	2.41	3.00	0.29	0.022	0.034	0.013	(0.0014)	0.03	0.006	0.001	(0.003)	.	.
903	BS 903B	86.7	(0.001)	0.049	0.0004	0.50	0.10	0.002	7.9	0.010	0.003	(0.007)	<0.0005	0.003	.	.
922	BS 922B-1	88.4	(0.001)	0.010	(0.002)	0.61	1.33	(0.001)	5.8	0.003	(0.0004)	0.073	0.006	0.003	.	.
929	BS 929	85.3	(0.00005)	0.0030	3.37	1.98	(0.001)	9.07	0.0055	0.001	.	0.037	.	0.002	.	Ag: (0.001)
938	BS 938-1	77.1	(0.002)	0.015	(0.001)	0.49	14.8	(0.004)	7.16	(0.004)	.	0.059	0.009	0.033	.	O: 0.0031
954	BS 954A	85.64	10.17	3.50	0.10	0.20	0.016	0.029	0.033	(0.006)	0.004	0.012	<0.0001	0.001	.	Ag: 0.0048
955	BS 955C	80.6	10.68	4.04	0.06	4.31	0.003	0.025	0.003	<0.002	.	0.012	.	(0.002)	.	Ag: 0.014

CDA Number	Cu	Al	Fe	Mn	Ni	Pb	Si	Sn	Zn	As	C	P	S	Sb	Be	Co
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ALLOY	ISO?	NUMBER	ALLOY	ISO?	NUMBER	ALLOY	ISO?	NUMBER
101		IARM Cu101-18	630		IARM 80D	922		BS 922B-4
110	17025	BS 110B	632		CTIF CA26	922		BS 922B-5
110	17034	BS 110C	642	17025	BS 642B	927.1		32X SN1
110		IARM Cu110-18	642	17025	BS 642C	929	17025	BS 929
110		IARM 70C	642	17034	BS 642D	929 MOD	17034	BS 929MOD
122.2		CURM 09.03	642		IARM 81B	931 MOD		C71.34
125		CURM 09.02	642		IARM Cu648-18	932	17025	BS 932F
145	17025	BS 14500	647		IARM Cu647-18	932	17034	BS 932G
145	17034	BS 14500A	655		37X 65500	932	17034	BS 932H
172		BS 172Be-1	655		BS 655A	932		IARM 91E
172	17034	BS 172Be-2	655	17025	BS 655B	932		IARM Cu932-18
172		CTIF 4872	655	17025	BS 655C	932 MOD		CTIF B23
172		IARM Cu172-18	655		IARM 82B	936	17025	BS 936
172		IARM Cu172-19	655		IARM Cu655-18	936		CTIF B31
173		36X CBC4	673		31X HT37	937		32X 93700
175.1		36x CBC5	675		BS 675	937	17025	BS 937C
175.1	17034	BS 17510	675		BS 675A	937		CURM 50.02
180		36X 274	675	17025	BS 675B	937		IARM 92C
181.50	17025	BS 18150	675		IARM 83B	938		BS 938-1
181.50	17025	BS 18150A	687		BAM 368	941		32x LB16
181.55		36X CCR1	693		ERM-EB393A	941		IARM 184A
182		IARM 279A	693		IARM 313A	945 MOD		CTIF B32
182		IARM Cu182-18	702.6		37X 218	947		IARM 267A
240		C30.07	706		36X 70600A	952.2		CTIF 2152-S
260		C48.06	706		BS 706	953		CTIF CA3
260		CURM 48.04	706		BS 706A	954		BS 954A
261.3		C48.03	706		BS 706B	954		BS 954B
274		C38.06	706	17034	BS 706C	954		BS 954C
274		C38.06-1	706		CTIF CuNi 10	954		BS CC954
280		C30.03	706		IARM 84C	954		IARM Cu954-18
280		C30.12	706		HRT CU2014	954		IARM Cu954-19
314		IARM 72B	713		BAM 389	954		IARM Cu954-21
360	17025	BS 360B	715		36X 71500	955		BS 955C
360	17034	BS 360C	715		BS 715A	955		IARM Cu955-18
360	17034	BS 360D	715	17034	BS 715B	955 MOD		CTIF CA10
360		IARM Cu360-18	715	17034	BS 715C	955.1		IARM 334A
360		SRM 1124	715		IARM 85C	955.1		IARM 334B
370		31X B18	715		IARM Cu715-18	955.1 MOD		CTIF CA22
371		C30.22	715		IARM Cu715-20	956		32X CA12
464		BS 464A	715		SRM 1276a	964		IARM 236A
464	17034	BS 464B	767		C65.28	976		IARM 298A
464		IARM Cu464-21	798.3		34X 79830	Coinage Alloy		36X CN21
482		BS 482A	815		IARM 158C	Coinage Alloy		36X CN23
482		IARM 75B	836	17034	BS 836B	Cu IX		SRM C1252a
482		IARM 75C	836	17034	BS 836C	Cu VIII		SRM C1251a
485	17034	BS 485A	836	17034	BS 836D	Cu X		SRM C1253a
485		IARM 76D	836		IARM Cu836-18	CuSn5Zn5Pb2		HRT CU2022
485		IARM Cu485-18	836 + Al		IMN BR1	Envirobrass 2-1		IARM 226A
486		IARM Cu486-18	838		33X GM8	Envirobrass 2-2		IARM 227A
510		32X 51000	844		IARM Cu844-18	Envirobrass 2-3		IARM 228A
510		BS 510A	855		31X B2N	Federalloy I-836		IARM 265A
510	17025	BS 510B	855		31X TB3	Federalloy I-844		IARM 264A
510	17034	BS 510C	855		C38.01	Federalloy I-848A		IARM 263A
510		IARM 77B	855		C38.02	Federalloy III-932		IARM 266A
510		IARM Cu510-18	855		C38.03	Hiduron 130		IARM CuH130-18
512		32X 92100	855		C38.04	Hiduron 191		IARM CuH191-18
521		32X 52100	855		C38.05	NARloy-A		IARM 159A
521		HRT CU2016	857		BS 857B-1	NARloy-Z		IARM 160A
524		C11.04	857		BS 857B-2	Spinodal Alloy		36X SP1
544		33X 54400	857		BS 857B-3			
544	17025	BS 544B	857		BS 857B-4			
544	17034	BS 544C	862		CTIF LH7			
544		IARM 78B	863	17025	BS 863B			
544		IARM Cu544-18	863		IARM 88C			
544 MOD	17025	BS 544c	873		31X WSB6			
610 MOD		31X B17	893.2, Magnolia B		IARM CuMB1-18			
614		32X 61400	902		BAM 377			
622		CTIF 2154-V	903		BS 903B			
623		32X CA7	903	17034	BS 903E			
623		BS 623	903		IARM Cu903-18			
623		BS 623A	905		BS 905A-1			
623		IARM 79B	905		BS 905A-2			
623		IARM 79C	905		BS 905A-3			
624		32X ALB3	905		BS 905A-4			
624	17034	BS 624	907		IARM 310A			
624		C52.51	908		32X PB10			
624		CTIF 3011-G	910 MOD		CTIF B1			
624		CTIF CA21	922		BS 922B-1			
630	17025	BS 630A	922		BS 922B-2			
630	17025	BS 630B						
630	17025	BS 630C						

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

Alloy	Notes	Cu	Ag	Al	Fe	Mn	Ni	P	Pb	S	Sb	Si	Sn	Zn	As	Be	Bi	Co	Cr	Mg	Ti	Zr
958.2		>77.50		9.0-10.0	4.0-5.0	<1.50	4.5-5.8	.	<0.02	.	.	<0.10	<0.20	<0.20	.	.	.	.	.	.	.	.
959		rem		12.0-13.5	3.0-5.0	<1.50	<0.50	<0.02	<0.01	<0.02	.	<0.50	.	.	.	.	.	.	.	.	.	.
962	C <0.10, Nb <0.00	rem			1.0-1.8	<1.50	9.0-11.0	<0.02	<0.01	<0.02	.	<0.50	.	.	.	.	.	.	.	.	.	.
963	C <0.15, Nb 0.50-1.50	rem			0.50-1.50	0.25-1.50	18.0-22.0	<0.02	<0.01	<0.02	.	<0.50	.	.	.	.	.	.	.	.	.	.
964	C <0.15, Nb 0.50-1.50	rem			0.25-1.50	<1.50	28.0-32.0	<0.02	<0.03	<0.02	.	<0.50	.	.	.	.	.	.	.	.	.	.
966		rem			0.8-1.1	<1.00	29.0-33.0	.	<0.01	.	.	<0.15	.	.	0.40-0.70	.	.	.	.	.	0.01-0.20	0.1-0.2
967		rem			0.7-1.0	<0.70	29.0-33.0	<0.01	<0.01	.	.	<0.15	.	.	1.10-1.20	.	.	.	.	0.005-0.15	<0.01	.
969	Nb 0.10-0.30, B <0.01	rem		<0.10	<0.50	0.05-0.30	9.5-10.5	<0.005	<0.005	<0.0025	<0.02	<0.05	7.5-8.5	<1.00	.	.	<0.001	.	.	<0.15	.	.
968	Nb <0.10	rem			<0.50	0.50-0.30	14.5-15.5	<0.02	<0.02	.	.	<0.30	5.8-8.5	<0.50	.	.	.	.	.	<0.15	.	.
969.5	Nb <0.10	rem			<0.50	0.05-0.40	11.0-15.5	.	<0.02	.	.	<0.30	5.8-8.5	<0.50	.	.	.	.	.	<0.15	.	.
973		53.0-58.0		<0.005	<1.50	<0.50	11.0-14.0	<0.05	8.0-11.0	<0.08	<0.35	<0.15	1.5-3.0	17.0-25.0	.	.	.	.	.	.	.	.
974		58.0-61.0			<1.50	<0.50	15.5-17.0	.	4.5-5.5	.	.	<0.15	2.5-3.5	rem	.	.	.	.	.	.	.	.
976		63.0-67.0		<0.005	<1.50	<1.00	19.0-21.5	<0.05	3.0-5.0	<0.08	<0.25	<0.15	3.5-4.5	3.0-5.0	.	.	.	.	.	.	.	.
978		64.0-67.0		<0.005	<1.50	<1.00	24.0-27.0	<0.05	1.0-2.5	<0.08	<0.20	<0.15	4.0-4.5	1.0-4.0	.	.	.	.	.	.	.	.
982		73.0-79.0			<0.70	.	<0.50	<0.10	21.0-27.0	.	<0.30	.	0.6-2.0	<0.50	.	.	.	.	.	.	.	.
984		rem	<1.50		<0.70	.	<0.50	<0.10	26.0-33.0	.	<0.50	.	<0.50	<0.50	.	.	.	.	.	.	.	.
986		60.0-70.0	<1.50		<0.35	.	<0.50	<0.10	30.0-40.0	.	<0.50	.	<0.50	<0.50	.	.	.	.	.	.	.	.
988		56.5-62.5	<1.50		<0.35	.	.	<0.02	37.5-42.5	.	.	.	<0.25	<0.10	.	.	.	.	.	.	.	.
988.2		rem			<0.35	.	.	.	40.0-44.0	.	.	.	1.0-3.0	.	.	.	.	.	.	.	.	.
988.4		rem			<0.35	.	.	.	44.0-58.0	.	.	.	1.0-3.0	.	.	.	.	.	.	.	.	.
993	Incramet 800	rem		10.7-11.5	0.40-1.00	.	13.5-16.5	.	<0.02	.	.	<0.02	<0.05	.	.	.	1.0-2.0	.	.	.	.	.
993.5		rem		9.5-10.5	<1.00	<0.25	14.5-16.0	.	<0.15	.	.	.	7.5-9.5	.	.	.	.	.	.	.	.	.
994		rem		0.50-2.00	1.0-3.0	<0.50	1.0-3.5	.	<0.25	.	.	0.50-2.00	.	0.50-5.00	.	.	.	.	.	.	.	.
995		rem		0.50-2.00	3.0-5.0	<0.50	3.5-5.5	.	<0.25	.	.	0.50-2.00	.	0.50-2.00	.	.	.	.	.	.	.	.
996	C <0.05	rem		1.0-2.8	<0.20	39.0-45.0	<0.20	.	<0.02	.	.	<0.10	<0.10	<0.20	.	.	.	<0.20	.	.	.	.
997	Nb 4.0-6.0	>54.00		0.50-3.00	<1.00	11.0-15.0	4.0-6.0	.	<2.0	.	.	.	<1.00	19.0-25.0
997.5		55.0-61.0		0.25-3.00	<1.00	17.0-23.0	<3.0	.	0.50-2.50	.	.	.	0.50-2.50	17.0-23.0

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