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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)	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-COBALT ALLOY

= class, where 1 = CRM and 2 = RM

#	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	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	0.0165	0.041	(0.029)	0.015	0.0057	172	17025
2	CTIF 4766	1.58	0.64	.	0.027	(0.2)	96.83	0.165	0.203	0.053	0.11	0.100	0.070		Typical Analysis
2	CTIF CuBeCo6	1.54	(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	BS 17500	0.43	2.31	(0.0012)	0.0210	0.0015	(97.1)	0.0262	0.095	0.0005	0.0641	(0.0002)	0.065	175	17025 , last
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	
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
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 to 12 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
BS 17500	(0.0002)	0.0020	0.0054	0.0076	0.081	(0.0005)	0.0031	(0.0001)	0.0001	(0.0004)	.	w	D 38 mm Ø x ~7 to 19 mm
36X CBC5B	.	.	.	0.0009	.	.	.	.	.	.	.	w	D ~40 mm Ø x ~15 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 158C	1.04	(0.01)	0.002	0.090	0.019	0.32	0.01	0.02	0.01	0.014	.	98.5
1	IARM 158B	0.85	(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 CCR1E	0.652	0.0042	0.0013	0.0170	.	0.0111	0.0008	.	0.0018	(0.0011)	0.079	99.24
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 158C	(0.001)	0.002	0.002	.	<0.0005	0.002	0.005	0.003	0.002	31 mm Ø x 2 (OK) or 18 (LAST) mm
IARM 158B	(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 CCR1E	0.0007	.	.	(0.0003)	.	.	0.0223	0.0016	.	~50 mm Ø x ~17 mm
36X 274B	.	.	0.0042	.	.	.	0.0015	.	.	~40 mm Ø x ~15 mm

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

CRM CONVERTER COPPER DISC AND ROD SETS

analysis listed in mass %

AVAILABLE IN SETS ONLY, AS GROUPED

IMN CT: 40 mm Ø x 30 mm

IMN CG, CH: 10 mm Ø x 100 mm

Number	Ag	As	B	Bi	Co	Cu	Fe	Ni	P	Pb	S	Sb	Se	Sn	Te	Zn
IMN CT1	0.057	0.32	0.024	0.018	0.051	.	0.17	0.48	0.082	0.013	0.054	0.33	0.062	0.24	0.053	0.28
IMN CT2	0.042	0.22	0.033	0.013	0.033	.	0.10	0.29	0.059	0.086	0.036	0.24	0.041	0.14	0.036	0.19
IMN CT3	0.026	0.11	0.00093	0.0067	0.013	.	0.083	0.12	0.038	0.31	0.012	0.11	0.018	0.070	0.022	0.11
IMN CT4	0.016	0.050	0.0042	0.0043	0.011	.	0.045	0.049	0.020	0.88	0.0060	0.049	0.011	0.025	0.011	0.045
IMN CT5	0.0062	0.0056	(0.011)	0.0011	0.0061	.	0.016	0.0095	0.0059	(1.48)	0.0024	0.010	0.0069	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 in SET/5 only

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 MI1	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 MI2	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 MI3	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 MI4	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 MI5	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 *	6.0	3.9	5.8	0.49	0.14	rem	0.10	0.005	0.01	0.015	0.015	0.015	.	* Provisional Analysis	.	0.06	.
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 71.32	typical analysis																
CURM 71.31	6.52	6.46	4.43	0.70	0.35	80.48	0.34	0.12	0.25	0.051	last	0.05	0.046	0.016	0.08	0.26	0.022
33X GM29A	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 GM29A	4.23	6.12	0.050	0.0289	0.0102	89.36	0.0026	(0.0004)	0.0017	0.0019	.	(0.0004)	(0.0005)	0.138	0.0024	0.0015	0.0027
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 IN SET/6 ONLY

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

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 only

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

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 ~40-43 mm Ø x ~15-18 mm

#	Number	Zn	Cu	Al	As	Bi	Fe	Mn	Ni	Pb	Sb	Si	Sn
1	31X B1Q	44.82	54.99	(0.001)	0.0070	0.0183	0.0223	0.0079	0.0200	0.0155	0.0075	(0.007)	0.0279
1	31X B18K	39.41	59.37	0.0193	0.0215	0.0196	0.0237	0.0207	0.0233	1.018	0.0205	0.019	0.0117
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 B11H	36.65	60.72	0.0262	0.0061	0.0054	0.802	0.653	1.033	0.0134	0.0057	0.0063	0.0117
1	31X B10M	36.05	60.18	0.358	0.0087	0.0215	(1.39)	0.205	1.475	0.0274	0.0124	0.0389	0.0310
1	31X TB5B	35.6	61.49	0.071	0.396	0.292	0.094	0.283	0.106	0.575	0.229	0.111	0.129
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 B3M	35.01	64.58	0.074	0.0196	0.0149	0.0264	0.0296	0.0259	0.0299	0.0205	.	0.0202
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 B26F	30.30	62.93	1.005	0.126	0.106	0.649	0.408	1.396	0.930	0.098	0.252	1.476
1	31X B21E	29.55	69.32	0.0244	0.0908	0.104	0.126	0.0603	0.117	0.113	0.105	0.059	0.101
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 B6K	19.93	79.90	0.0010	0.0009	0.0010	0.0097	0.0039	0.0066	0.0122	0.0011	0.015	0.0029
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 B8J	10.23	89.37	(0.001)	0.0074	0.030	0.132	0.0006	0.0421	0.082	0.0254	(0.002)	0.0311
1	31X B23D	9.97	89.57	0.0048	0.0482	0.0463	0.060	0.0053	0.047	0.046	0.0448	0.0046	0.060
1	31X B9L	3.83	96.05	(0.0005)	0.0053	0.0068	0.0168	0.0017	0.0129	0.0549	0.0075	0.0036	0.0245
1	31X B24D	1.99	95.65	(0.0024)	0.0116	0.0126	0.0342	0.0030	0.134	0.050	0.118	.	1.93
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	.	.

#	Number	Zn	Cu	Al	As	Bi	Fe	Mn	Ni	Pb	Sb	Si	Sn
	Number	B	C	Cd	Co	Cr	Hg	P	S	Se			
	31X B1Q	0.0007	.	0.0018	0.0015	0.0091	.	0.0385	.	.			
	31X B18K	Ag:0.0143	.	0.0254	0.0015	(0.013)	.	0.0195	Te:0.017	.			
	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	0.0014	.	0.0078	0.0043	.	.	Ag:0.011	Te:0.0025	.			
	31X B11H	.	.	.	.	.	.	.	.	.
	31X B10M	.	.	.	0.0390	0.0192	.	.	.	.
	31X TB5B	Ag:0.216	.	0.49	0.0202	0.0031	.	0.0255	.	.			
	31X B3N	0.0008	.	0.0027	0.0066	Te: 0.0056	.	0.0366	Ag:0.0152	.			
	31X B3M	0.0022	Ag:0.0247	0.0040	0.0109	.	.	0.0421	Te:0.0098	.			
	31X TB4G	(0.0004)	.	0.0032	0.0067	.	.	.	Te:0.0035	.			
	31X B26F	.	Ag:0.053	0.0147	0.1197	.	.	0.0593	.	Te:(0.009)			
	31X B21E	.	.	.	.	.	.	0.1269	(0.002)	Te:0.0353			
	31X B5L	(0.0009)	.	0.0040	0.0250	.	.	.	.	.
	31X B6K	0.0023	.	0.0037	0.0063	<0.0005	.	.	.	.
	31X B7L	0.0013	.	0.0064	0.0044	Te:(0.002)	.	.	.	.
	SRM 1110	.	.	.	.	.	.	.	.	.
	SRM 1111	.	.	.	.	.	.	.	.	.
	31X B8J	.	.	0.0155	0.0072	(0.0005)	.	0.0026	0.045	.			
	31X B23D	.	.	0.0010	0.0472	.	.	0.030	0.053	.			
	31X B9L	(0.0003)	.	.	.	.	.	.	.	.		0.0029	
	31X B24D	.	.	0.0008	.	.	.	0.0065	0.050	.			
	PB MS10	.	.	.	.	.	.	.	.	.
	BAM M396	.	.	0.00022	0.00012	0.00079	.	0.00089	.	<0.001			38 mm Ø x 30 mm

Number	B	C	Cd	Co	Cr	Hg	P	S	Se
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CRM CARTRIDGE BRASS SETS 40 mm Ø x ~28 mm

Table with columns: Number, Cd, Cr, Cu, Se, Zn, Zr. Rows include IMN MJ1 through IMN MJ5 and IMN MJJ1 through IMN MJJ4.

available in SETs only, as grouped

CRM FREE CUTTING BRASS SET available in SET/5 only 40 mm Ø x 25 mm

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

LEADED BRASS

= class, where 1 = CRM and 2 = RM

* Provisional Analysis

Large table with columns: # Number, Pb, Sn, Zn, Cu, Al, As, Bi, Co, Fe, Mn, Ni, P, Sb, Si. Rows list various brass grades and their chemical compositions.

Table with columns: Number, Ag, B, Be, C, Cd, Cr, Mg, O, S, Se, Te, Units. Rows list brass grades, their chemical compositions, and typical units.

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

available in SETS ONLY, as grouped 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
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
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

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 or 18 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	B: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
31X HT38A	58.77	36.66	0.960	0.0530	2.60	0.869	0.0008	0.003	0.0242	0.0024	0.051	(0.001)	(0.0006)	0.039	50 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

Number	Sn	Zn	Cu	Al	As	Fe	Mn	Ni	P	Pb	S	Sb	Si
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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

available in SETS only, as grouped 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. Rows include various IMN and IARM series like IMN BF1, IMN BP1, IMN BO1, etc.

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 series like 1 32X ALB9C, 1 IARM Cu954-18, 1 BS 624*, etc.

Table with columns: Number, Ag, Be, C, Co, N, O, S, Sb, Zr, Units. Rows include 32X ALB9C, IARM Cu954-18, BS 624*, etc., and a summary table at the bottom with columns for item numbers and units.

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

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
1	32X ALB 10B	12.11	73.64	0.0194	0.0152	3.63	0.0122	1.626	7.21	0.069	0.152	0.158	0.201	0.961
1	IARM 94B	10.8	80.6	<0.01	0.017	3.99	.	0.071	4.31	0.011	0.004	0.028	(0.003)	0.14
2	CURM 52.52	10.69	79.26	.	0.004	6.02	0.007	0.145	3.56	.	0.074	0.011	0.044	0.094
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 204A	10.55	83.3	(<0.01)	0.008	3.87	.	0.052	1.95	0.007	0.004	0.034	0.005	0.22
1	32X ALB 3S	10.43	80.01	0.0213	0.0392	3.720	0.0659	0.243	3.51	0.0345	0.117	0.155	0.1209	1.313
2	BS 955B	10.30	81.5	(0.002)	.	3.79	.	0.12	4.11	0.017	0.051	0.05	0.024	0.052
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	32X ALB 6K	9.69	80.77	0.0116	(0.1)	2.71	0.0104	0.787	5.42	(0.006)	0.0749	0.073	0.120	0.126
1	VS BR3	9.6	.	.	.	4.00	.	0.227	3.85	(0.003)	0.007	0.071	0.005	0.009
2	C52.55	9.3	Rem	.	0.05	4.9	0.13	1.1	4.6	.	0.14	0.03	0.03	0.10
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	IARM 235A	8.9	81.2	<0.005	0.01	4.07	.	1.17	4.44	0.012	0.012	0.061	0.018	0.083
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 5K	7.21	83.72	.	0.192	2.04	0.179	1.416	3.92	(0.051)	0.0512	0.107	0.0293	0.80
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
	Number	Ag	Be	Bi	C	Co	S	Sb	Se	Units				
	32X ALB 10B	0.0144	.	.	.	0.0984	.	.	Te:0.0108	~40 mm Ø x ~15 mm				
	IARM 94B	0.017	.	.	(0.006)	0.011	0.002	(0.011)	.	31 mm Ø x 2 mm				
	CURM 52.52	.	.	.	.	.	.	.	.	50 mm Ø x 10 - 12 mm				
	BS 955C	0.014	.	.	.	.	.	(<0.002)	.	38 mm Ø x ~7 or 19+ mm				
	IARM 204A	0.009	.	.	0.006	0.008	(0.002)	(<0.01)	.	31 mm Ø x 2 mm				
	32X ALB 3S	0.0272	.	.	.	0.0760	.	.	Nb:0.018	~40 mm Ø x ~15 mm				
	BS 955B	(0.009)	.	.	.	.	0.002	(0.002)	.	38 mm Ø x 12 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	.	38 mm Ø x ~7 or 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				
	32X ALB 6K	0.0082	.	.	.	0.139	.	.	.	~40 mm Ø x ~15 mm				
	VS BR3	.	.	.	.	.	.	.	.	38 mm Ø x 18 mm				
	C52.55	.	.	.	.	.	.	.	.	50 mm Ø x 10 - 12 mm				
	BS CC954	.	.	.	(0.007)	.	(0.002)	0.004	.	32 mm Ø x 17 mm				
	C52.56	.	.	.	.	.	.	.	.	50 mm Ø x 10 - 12 mm				
	IARM 235A	<0.005	.	.	0.009	0.01	0.002	(0.004)	.	31 mm Ø x 2 mm last				
	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 5K	0.0061	.	.	0.0606	.	Nb:0.181	.	Te:0.047	~40 mm Ø x ~15 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

Number	typical analysis												60 mm Ø x 5 mm
	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	.	.

CRM BISMUTH BRONZE

Number	Bi	Cu	Ni	P	Pb	Sn	Zn	Ag	Al	As	Co	Cr	Fe
IARM 211A	5.0	88.4	0.003	0.19	0.014	6.23	0.006	0.005	0.002	(0.01)	(0.001)	(0.002)	0.004
IARM CuMB1-18	4.51	88.98	0.58	0.049	0.015	5.58	0.47	.	(0.0012)	.	.	.	(0.0016)

Number	Mn	O	S	Sb	Se	Si	Units
IARM 211A	(0.003)	.	0.002	0.057	.	0.003	31 mm Ø x 2 mm
IARM CuMB1-18	.	(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 only 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

PHOSPHOR BRONZE

= class, where 1 = CRM and 2 = RM * Provisional Analysis

Table with 15 columns: #, Number, P, Sn, Zn, Cu, Mn, Ni, Pb, Al, As, Fe, Mg, S, Sb, Si. It lists various alloy compositions for Phosphor Bronze, including items like 32X PB11H, BS 510C, and BS 510B.

Table with 15 columns: #, Number, P, Sn, Zn, Cu, Mn, Ni, Pb, Al, As, Fe, Mg, S, Sb, Si. This table continues the list of alloy compositions for Phosphor Bronze, including items like BS 544B, 32X PB16A, and 32X PB10P.

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

SILICON BRONZE

= class, where 1 = CRM and 2 = RM

Table with 15 columns: #, Number, Si, Cu, Mn, Al, As, C, Cr, Fe, Ni, P, Pb, Sn, Zn. It lists various alloy compositions for Silicon Bronze, including items like BS 655B, BS 655C, and 37X 65500A.

CRM

SILICON BRONZE SET

BH1 and BH6 set only, others ok individual

40 mm Ø x 25 mm

Table with 15 columns: Number, Al, As, Bi, Cu, Fe, Mg, Mn, Ni, P, Pb, S, Sb, Si, Sn, Zn. It lists compositions for the CRM Silicon Bronze Set, including items like IMN BH1, IMN BH2, and 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 SN4B	18.96	0.864	0.496	76.87	0.0513	0.0811	0.0148	0.607	1.208	0.0132	0.143	0.0223
1	32X SN3G	16.14	0.159	0.150	81.7	(0.14)	0.14	0.067	0.464	0.646	0.035	0.362	0.0247
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 SN5B	15.90	0.860	0.604	78.97	0.215	1.009	0.528	0.667	.	.	0.702	.
1	32X SN7B	12.4	2.31	1.14	81.21	0.0254	0.036	.	0.276	0.0051	0.027	0.235	.
1	32X SN1F	11.65	5.66	0.259	80.34	(0.0010)	0.0014	(0.0002)	1.931	0.0022	0.0126	0.0274	(0.0006)
2	CURM 50.04	11.30	9.94	0.66	76.11	0.014	0.10	0.028	1.10	0.032	0.14	0.50	0.011
2	HRT CU2000	11.03	0.78	0.42	86.4	(0.001)	0.04	(0.01)	1.28	0.009	0.014	.	(0.01)
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	.
2	BS CC905	9.68	0.58	2.89	85.4	0.0007	0.048	0.0014	1.51	0.059	0.015	0.011	0.003
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	IARM 89C	9.14	0.17	3.0	87.5	(0.002)	0.004	(0.001)	0.008	0.004	0.0011	0.008	(0.003)
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)
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 SN4B	0.495	0.0651	0.0150	.	.	0.100	.	.	.	.	~42 mm Ø x ~15 mm	
	32X SN3G	.	0.0323	.	.	.	0.0460	.	.	.	.	~40 mm Ø x ~15 mm	
	CTIF B1	.	.	.	.	.	.	.	.	.	.	60 mm Ø x 5 mm	
	32X SN5B	0.095	0.0557	0.124	.	0.130	0.129	0.0238	.	.	(0.001)	~40 mm Ø x ~15 mm Au: 0.0102	
	32X SN7B	0.328	1.13	0.198	.	0.020	0.339	.	.	0.066	0.0204	~40 mm Ø x ~15 mm	
	32X SN1F	.	0.0111	.	.	.	0.0136	.	.	.	.	~40 mm Ø x ~15 mm	
	CURM 50.04	.	0.06	0.10	.	.	.	.	.	.	.	50 mm Ø x 10-12 mm	
	HRT CU2000	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 20 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)	0:0.0060	(0.0008)	(0.0005)	38 mm Ø x 19+ mm 17025	
	32X 93700A	.	.	.	.	.	0.0004	.	.	.	.	~42 mm Ø x ~15 mm	
	BS CC905	.	0.004	.	0.003	.	.	.	.	.	.	32 mm Ø x 20 mm	
	IARM 92C	(0.05)	(0.0005)	(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	
	IARM 89C	0.005	0.004	(0.003)	(0.002)	(0.001)	(0.001)	(0.002)	0:0.006	(0.001)	(0.0004)	31 mm Ø x 2 or 18 mm	
	BS 929	(<0.005)	0.0017	(<0.005)	(<0.005)	.	0.0031	(<0.005)	.	0:0.0031	.	51 mm Ø x ~7 or 19+ mm 17025	
	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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CRM LEADED, TIN, AND LEADED TIN BRONZE DISC AND ROD SETS

available in SETS ONLY, as grouped

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	.	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	Te	Cf
110	BS 110B	99.94	<0.0002	0.0005	<0.0001	<0.0002	0.00052	<0.0004	<0.0002	<0.0003	<0.0001	0.0007	<0.0006	0.00030	<0.0005	<1ppm	<1ppm	0: 0.0363	
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)	(<1ppm)	(<1ppm)	0: 0.0007	Te: 0.53
172	BS 172Be-1	97.68	(0.02)	0.052	0.0010	0.039	(0.002)	0.055	0.033	0.0070	(0.001)	(0.001)	0.003	(<0.0002)		1.89	0.206		
360	BS 360A	61.42	<0.001	0.151	0.0007	0.058	2.51	<0.005	0.13	35.63	0.002	(0.0032)	0.001	(0.0003)	0.008				
464	BS 464A	60.6	(0.001)	0.013	0.0002	0.004	0.056	<0.01	0.62	38.73	<0.002	(0.0006)	0.012	0.001	(0.001)				
482	BS 482A	60.0	(0.003)	0.020	<0.002	(0.007)	0.50	(0.002)	0.65	38.8	<0.002	(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	0.0008	(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	3.42	0.011	0.003	0.021	0.038	0.040				
623	BS 623A	88.13	9.12	2.19	0.273	0.146	0.001	0.014	0.002	0.008	(0.006)	(0.002)	<0.002	(<0.0005)	<0.002				
630	BS 630A	81.0	10.05	3.73	0.11	4.81	0.0069	0.037	0.019	0.17	(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	0.011	<0.002	0.001	0.001	<0.001	(<0.002)				
655	BS 655A	95.74	(0.002)	0.075	0.91	0.008	0.008	3.14	0.07	0.02	<0.002	(0.0006)	(0.004)	(0.0003)	<0.002				
675	BS 675A	58.5	<0.002	1.12	0.32	0.019	0.074	(0.005)	0.80	39.1	<0.002	(0.0007)	0.010	(0.0005)	0.0011				
706	BS 706A	87.60	(0.002)	1.30	0.66	10.18	0.008	<0.005	0.011	0.13	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	0.10	(0.0014)	0.03	0.006	0.001	(0.003)				
863	BS 863A	64.1	5.21	2.41	3.00	0.29	0.022	0.034	0.013	24.8	0.010	0.003	(0.007)	<0.0005	0.003				
903	BS 903B	86.7	(0.001)	0.049	0.0004	0.50	0.10	0.002	7.9	4.39	0.003	(0.0004)	0.073	0.006	0.003				
922	BS 922B-1	88.4	(0.001)	0.010	(0.002)	0.61	1.33	(0.001)	5.8		0.001		0.037		0.002				Ag: (0.001)
929	BS 929	85.3	(<0.00005)	0.0030		3.37	1.98	(<0.001)	9.07	0.0055	0.0017	(<0.005)	0.119	0.0026	0.0146		0.0031		0: 0.0031
938	BS 938-1	77.1	(<0.002)	0.015	(0.001)	0.49	14.8	(<0.004)	7.16	0.26	(0.004)		0.059	0.009	0.033				Ag: 0.0048
954	BS 954A	85.64	10.17	3.50	0.10	0.20	0.016	0.029	0.033	0.30	(0.006)	0.004	0.012	<0.0001	0.001				
955	BS 955C	80.6	10.68	4.04	0.06	4.31	0.003	0.025	0.003	0.15	(<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
110	17025	BS 110B	642	17025	BS 642B	932		BS 932H
110	17025	BS 110C	642	17025	BS 642C	932		IARM 91E
110		IARM 70C	642	17025	BS 642D	932		IARM Cu932-18
122.2		CURM 09.03	642		IARM 81B	932 MOD		CTIF B23
125		CURM 09.02	642		IARM Cu648-18	936	17025	BS 936
145	17025	BS 14500	655		37X 65500	936		CTIF B31
145	17025	BS 14500A	655		BS 655A	937		32X 93700
145		IARM 278A	655	17025	BS 655B	937	17025	BS 937C
172		BS 172Be-1	655	17025	BS 655C	937		CURM 50.02
172	17025	BS 172Be-2	655		IARM 82B	937		IARM 92C
172		CTIF 4872	673		31X HT37	938		BS 938-1
172		IARM Cu172-18	674		31X HT38	941		IARM 184A
173		36X CBC4	675		BS 675	945 MOD		CTIF B32
175	17025	BS 17500	675		BS 675A	947		IARM 267A
175.1		36x CBC5	675	17025	BS 675B	952.2		CTIF 2152-S
180		36X 274	675		IARM 83B	953		CTIF CA3
181.50	17025	BS 18150	687		BAM 368	954		BS 954A
181.50	17025	BS 18150A	693		IARM 313A	954		BS 954B
181.55		36X CCR1	702.6		37X 218	954		BS 954C
182		IARM 279A	706		36X 70600A	954		BS CC954
240		C30.07	706		BS 706	954		IARM Cu954-18
260		C48.06	706		BS 706A	954 MOD		IARM 204A
260		CURM 48.04	706		BS 706B	955		BS 955B
261.3		C48.03	706	17025	BS 706C	955		BS 955C
274		C38.06	706		CTIF CuNi 10	955		IARM 94B
274		C38.06-1	706		IARM 84C	955 MOD		CTIF CA10
280		C30.03	706		HRT CU2014	955.1		IARM 334A
280		C30.12	710		36X CN3	955.1		IARM 334B
314		IARM 72B	713		BAM 389	955.1 MOD		CTIF CA22
316		31X 7835-7	715		36X 71500	956		32X CA12
360	17025	BS 360B	715		BS 715A	958		IARM 235A
360		BS 360C	715		IARM 85C	964		IARM 236A
360		BS 360D	715		IARM Cu715-18	976		IARM 298A
360		IARM 73C	715		SRM 1276a	Coinage Alloy		36X CN21
360		SRM 1124	762		34X NS2	Coinage Alloy		36X CN23
370		31X B18	767		C65.28	Cu IX		SRM C1252a
371		C30.22	770		34X NS5	Cu VIII		SRM C1251a
464		BS 464A	798.3		34X 79830	Cu X		SRM C1253a
464	17025	BS 464B	815		IARM 158B	Envirobrass 2-1		IARM 226A
464		IARM 74A	815		IARM 158C	Envirobrass 2-2		IARM 227A
464		IARM 74B	836	17025	BS 836B	Envirobrass 2-3		IARM 228A
482		BS 482A	836	17025	BS 836C	Federalloy I-836		IARM 265A
482		IARM 75B	836	17025	BS 836D	Federalloy I-844		IARM 264A
482		IARM 75C	836 + Al		IMN BR1	Federalloy I-848A		IARM 263A
485		BS 485a	838		33X GM8	Federalloy III-932		IARM 266A
485		IARM 76D	855		31X TB3	Hiduron 130		IARM CuH130-18
485		IARM Cu485-18	855		C38.01	Hiduron 191		IARM CuH191-18
486		IARM Cu486-18	855		C38.02	NARloy-A		IARM 159A
510		32X PB20	855		C38.03	NARloy-Z		IARM 160A
510		32X 51000	855		C38.04	Spinodal Alloy		36X SP1
510		BS 510A	855		C38.05	Spinodal Alloy		36X SP2
510	17025	BS 510B	857		BS 857B-1			
510		BS 510C	857		BS 857B-2			
510		IARM 77B	857		BS 857B-3			
512		32X 92100	857		BS 857B-4			
521		32X 52100	862		CTIF LH7			
521		HRT CU2016	863	17025	BS 863B			
524		C11.04	863		IARM 88C			
544		33X 54400	873		31X WSB6			
544	17025	BS 544B	893.2, Magnolia B		IARM 211A			
544		BS 544C	893.2, Magnolia B		IARM CuMB1-18			
544		IARM 78B	902		BAM 377			
544		IARM Cu544-18	903		BS 903B			
544 MOD		BS 544c	903	17025	BS 903D			
610 MOD		31X B17	903	17025	BS 903E			
614		32X 61400	903		IARM 89C			
615.5		36X CN22	905		BS 905A-1			
622		CTIF 2154-V	905		BS 905A-2			
623		32X CA7	905		BS 905A-3			
623		BS 623	905		BS 905A-4			
623		BS 623A	905		BS CC905			
623		IARM 79B	907		IARM 310A			
623		IARM 79C	910 MOD		CTIF B1			
624		32X ALB3	922		BS 922B-1			
624		BS 624	922		BS 922B-2			
624		C52.51	922		BS 922B-4			
624		CTIF 3011-G	922		BS 922B-5			
624		CTIF CA21	927.1		32X SN1			
630		BS 630A	929	17025	BS 929			
630	17025	BS 630B	931 MOD		C71.34			
630	17025	BS 630C	932	17025	BS 932F			
630		IARM 80D	932	17025	BS 932G			

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

The best efforts have been made in the construction of this chart. Some samples do not perfectly fit the alloy specifications, but are considered acceptable for the purposes of calibration and type standardization.

Alloy	Notes	Cu	Ag	Al	Fe	Mn	Ni	P	Pb	S	Sb	Si	Sn	Zn	As	Be	Bi	Co	Cr	Mg	Ti	Zr
157.25	Cu = Ag+Cu, O 0.28-0.37	>99.24		0.33-0.37	<0.01				<0.01													
157.6	Cu = Ag+Cu, O 0.52-0.59	>98.77		0.58-0.62	<0.01				<0.01													
162	Cu = Ag+Cu, CH 0.70-1.20	rem			<0.02																	
162.1	Cu = Ag+Cu, CH 0.50-1.20	rem			<0.02																	
164	Cu = Fe, ALL, CH 0.60-0.90	>99.80			<0.02																	
165	Cu = Ag+Cu, CH 0.60-1.00	rem		<0.20	<0.02						<0.20	<0.20	0.50-0.70			1.60-1.79						
170	Cu = Ag+Cu, Ni+CO >0.20	rem		<0.20	<0.20						<0.20	<0.20				1.80-2.00						
172	Cu = Ag+Cu, Ni+CO >0.20	rem		<0.20	<0.20				0.20-0.60		<0.20	<0.20				1.90-2.00						
173	Cu = Ag+Cu, Ni+CO >0.20	rem		<0.20	<0.20						<0.20	<0.20				1.80-2.00						
174	Cu = Ag+Cu	rem		<0.20	<0.20						<0.20	<0.20				0.15-0.50		0.15-0.50				
174.1	Cu = Ag+Cu	rem		<0.20	<0.20						<0.20	<0.20				0.05-0.50		0.35-0.60				
174.2	Cu = Ag+Cu	rem		<0.20	<0.20						<0.20	<0.20				0.05-0.50		0.05-0.60				
174.5	Cu = Ag+Cu	rem		<0.20	<0.20						<0.20	<0.20				0.15-0.50		0.05-0.60				
174.55	Cu = Ag+Cu	rem		<0.20	<0.20				0.20-0.60		<0.20	<0.20				0.15-0.50		0.15-0.50				
174.6	Cu = Ag+Cu	rem		<0.20	<0.20						<0.20	<0.20				0.15-0.50		0.15-0.50				
174.65	Cu = Ag+Cu	rem		<0.20	<0.20						<0.20	<0.20				0.15-0.50		0.15-0.50				
175	Cu = Ag+Cu	rem		<0.20	<0.10						<0.20	<0.20				0.40-0.70		2.4-2.7				<0.50
175.1	Cu = Ag+Cu	rem		<0.20	<0.10						<0.20	<0.20				0.20-0.60		2.4-2.7				
175.2	Cu = Ag+Cu	rem		<0.20	<0.10						<0.20	<0.20				0.10-0.30		0.03-0.06				0.10-0.30
175.3	Cu = Ag+Cu, Ni = Ni+CO	rem		<0.6	<0.20						<0.20	<0.20				0.20-0.40		0.03-0.06				0.10-0.30
176	Cu = Ag+Cu	rem	0.90-1.10	<0.20	<0.20						<0.20	<0.20				0.25-0.50		1.4-1.7				
177	Cu = Ag+Cu, Fe 0.40-0.60	rem		<0.20	<0.10						<0.20	<0.20				0.40-0.70		1.4-1.7				
180	Cu = Ag+Cu, Ni = Ni+CO	rem		<0.20	<0.15						0.40-0.80	<0.20				0.10-0.60		2.4-2.7				
180.3	Cu = Ag+Cu	>99.90					2.0-3.0				0.08-0.12	<0.20				0.10-0.20		0.10-0.20				
180.4	Cu = Ag+Cu	>99.90						0.005-0.150			0.20-0.30	0.05-0.15				0.25-0.35		0.25-0.35				
180.45	Cu = Ag+Cu	>99.10									<0.05	<0.05	0.20-0.30	0.15-0.30		0.05-0.50		0.20-0.35				
180.5	Cu = Ag+Cu, Fe 0.005-0.015	>99.80									0.02-0.07	<0.05				0.05-0.15		0.05-0.15				
180.7	Cu = Ag+Cu	>99.80									0.01-0.10	0.01-0.10				0.15-0.40		0.15-0.40				0.01-0.40
180.8	Cu = Ag+Cu	>99.80			0.02-0.20						0.01-0.10	0.01-0.10				0.20-0.70		0.20-0.70				0.01-0.15
180.9	Cu = Ag+Cu	>96.00					0.30-1.20				0.01-0.10	0.01-0.10				0.30-1.00		0.30-1.00				0.15-0.80
181	Cu = Ag+Cu	>98.70														0.4-1.0		0.4-1.0				0.08-0.20
181.35	Cu = Ag+Cu, CH 0.20-0.60	rem														0.20-0.60		0.20-0.60				
181.4	Cu = Ag+Cu	rem									0.005-0.05	0.005-0.05		0.10-0.30		0.10-0.30		0.10-0.30				0.05-0.25
181.45	Cu = Ag+Cu	rem														0.15-0.45		0.15-0.45				0.05-0.15
181.5	Cu = Ag+Cu	rem														0.10-0.30		0.10-0.30				0.05-0.15
181.5	Cu = Ag+Cu	rem														0.10-0.30		0.10-0.30				0.05-0.15
181.5	Cu = Ag+Cu	rem														0.15-0.50		0.15-0.50				0.02-0.20

Alloy	Notes	Cu	Ag	Al	Fe	Mn	Ni	P	Pb	S	Sb	Si	Sn	Zn	As	Be	Bi	Co	Cr	Mg	Ti	Zr
711.1	Cu = Ag+Cu	rem			< 0.20	< 0.35	21.5-23.5		< 0.05					< 1.00								< 0.05
713	Cu = Ag+Cu	rem			0.40-1.00	< 1.00	23.5-26.5		< 0.05					< 1.00								
715	Cu = Ag+Cu	rem			0.40-1.00	< 1.00	29.0-33.0	< 0.02	< 0.02					< 1.00								
715.2	Cu = Ag+Cu	> 65.00			0.40-1.00	< 1.00	29.0-33.0	< 0.02	< 0.02					< 1.00								
715.8	Cu = Ag+Cu, C < 0.70	rem			< 0.50	< 0.30	29.0-33.0	< 0.03	< 0.05			< 0.15		< 0.05								
715.81		rem			0.40-0.70	< 1.00	29.0-32.0	< 0.02	< 0.02			< 0.25		< 0.001	< 0.001		< 0.05					0.20-0.50
715.9	Cu = Ag+Cu, C < 0.02, Hg < 0.0005	rem			0.40-1.00	0.50-1.50	30.0-32.0	< 0.001	< 0.01			< 0.015		< 0.001	< 0.001		< 0.05					< 0.001
716.3	Cu = Ag+Cu, C < 0.06	rem			0.40-1.00	1.5-2.5	29.0-32.0		< 0.01													
716.4	Cu = Ag+Cu, C < 0.06	rem			0.40-1.00	1.5-2.5	29.0-32.0		< 0.01													
717	Cu = Ag+Cu	rem			0.40-1.00	1.5-2.5	29.0-33.0		< 0.03							0.30-0.70						
719	Cu = Ag+Cu, C < 0.04	rem			< 0.50	0.20-1.00	28.0-33.0	< 0.02	< 0.05			< 0.25		< 0.05			2.2-3.0					0.01-0.20
721.5	Cu = Ag+Cu, C < 0.10	rem			< 0.10	< 0.05	43.0-46.0		< 0.05			< 0.25		< 0.20								0.02-0.35
723	Cu = Ag+Cu, C < 0.03	rem			0.5-1.0	< 1.00	15.0-18.0		< 0.05			< 0.03		< 1.00			0.30-0.70					< 0.03
724	Cu = Ag+Cu	rem			1.5-2.5	< 1.00	11.0-15.0		< 0.05			< 0.03		< 1.00								
724.2	Cu = Ag+Cu, C < 0.05	rem			1.0-2.0	3.5-5.5	13.5-16.5	< 0.01	< 0.02			< 0.15		< 1.00				< 0.50				0.05-0.40
725	Cu = Ag+Cu	rem			< 0.60	< 0.20	8.5-10.5		< 0.05					< 0.50								
726	Cu = Ag+Cu	rem			< 0.60	< 0.20	3.5-4.5	< 0.05	< 0.05					< 0.50								
726.5	Cu = Ag+Cu	91.0-93.0			< 0.10	< 0.10	7.0-8.0		< 0.01					< 0.50								
727	Cu = Ag+Cu	rem			< 0.50	0.05-0.30	8.5-9.50		< 0.02					< 0.50								< 0.15
728	Cu=Ag+Cu, Nb 0.1-0.3, B < 0.001	rem			< 0.50	0.05-0.30	9.5-10.5	< 0.005	< 0.005		< 0.02			< 0.50			< 0.001					< 0.01
729	Cu = Ag+Cu	rem			< 0.50	< 0.30	14.5-15.5		< 0.02					< 0.50								< 0.15
729.5	Cu = Ag+Cu	rem			< 0.50	< 0.60	20.0-22.0		< 0.05					< 0.50								
731.5	Cu = Ag+Cu	rem			< 0.25	< 0.50	4.0-7.0		< 0.10													
732	Cu = Ag+Cu	rem			< 0.6	< 1.00	19.0-23.0		< 0.05													
735	Cu = Ag+Cu	70.5-73.5			< 0.25	< 0.50	16.5-19.5		< 0.10					rem								
738	Cu = Ag+Cu	68.5-71.5			< 0.25	< 0.50	11.0-13.0		< 0.05					rem								
740	Cu = Ag+Cu	69.0-72.5			< 0.25	< 0.50	9.0-11.0		< 0.10					rem								
743	Cu = Ag+Cu	63.0-66.0			< 0.25	< 0.50	7.0-9.0		< 0.10					rem								
744	Cu = Ag+Cu	62.0-66.0			< 0.25	< 0.50	11.0-13.0		< 0.05					rem								
745	Cu = Ag+Cu	63.5-66.5			< 0.25	< 0.50	9.0-11.0		< 0.10					rem								
752	Cu = Ag+Cu	63.5-66.5			< 0.25	< 0.50	16.5-19.5		< 0.05					rem								
754	Cu = Ag+Cu	63.5-66.5			< 0.25	< 0.50	14.0-16.0		< 0.10					rem								
757	Cu = Ag+Cu	63.5-66.5			< 0.25	< 0.50	11.0-13.0		< 0.05					rem								
757.2	Cu = Ag+Cu	60.0-65.0			< 0.25	0.05-0.30	11.0-13.0		< 0.04					rem								
759	Cu = Ag+Cu, Ni = Ni+Co	60.0-65.0			< 0.25	< 0.50	17.0-19.0		< 0.10					rem								

Alloy

Notes

Cu

Ag

Al

Fe

Mn

Ni

P

Pb

S

Sb

Si

Sn

Zn

As

Be

Bi

Co

Cr

Mg

Ti

Zr

Alloy	Notes	Cu	Ag	Al	Fe	Mn	Ni	P	Pb	S	Sb	Si	Sn	Zn	As	Be	Bi	Co	Cr	Mg	Ti	Zr	
958.2		>77.50		9.0-10.0 12.0-13.5	4.0-5.0 3.0-5.0	<1.50 <1.50	4.5-5.8 <0.50		<0.02			<0.10	<0.20	<0.20									
959	C <0.10, No <1.00	rem			1.0-1.8	0.25-1.50	9.0-11.0	<0.02	<0.01	<0.02		<0.50											
962	C <0.15, No 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, No 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							
967	No 0.10-0.30, B <0.01	rem		<0.10	0.7-1.0	0.40-0.70	29.0-33.0	<0.0025	<0.01	<0.0025	<0.02	<0.15			1.10-1.20						0.01-0.20	0.1-0.2	
969	No <0.10	rem			<0.50	0.05-0.30	9.5-10.5		<0.005			<0.05								0.005-0.15	<0.01		
969.5	No <0.10	rem			<0.50	0.50-0.30	14.5-15.5		<0.02			<0.30								<0.15			
		rem			<0.50	0.05-0.40	11.0-15.5		<0.02			<0.30								<0.15			
973		53.0-56.0		<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		<0.005	<1.50	<0.50	15.5-17.0		4.5-5.5	<0.08	<0.25	<0.15	2.5-3.5	rem									
976		63.0-67.0		<0.005	<1.50	<1.00	19.0-21.5	<0.05	3.0-5.0	<0.08	<0.20	<0.15	3.5-4.5	3.0-9.0									
978		64.0-67.0		<0.005	<1.50	<1.00	24.0-27.0	<0.10	1.0-2.5	<0.08	<0.20	<0.15	4.0-5.5	1.0-4.0									
982		73.0-79.0			<0.70		<0.50	<0.10	21.0-27.0		<0.50		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			<0.02	30.0-40.0				<0.25	<0.10									
988		56.5-62.5	<5.50		<0.35				37.5-42.5				<0.25										
988.2		rem			<0.35				40.0-44.0				1.0-5.0										
988.4		rem			<0.35				44.0-56.0				1.0-5.0										
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			0.50-2.00		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	No 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	<5.0		0.50-2.50				0.50-2.50	17.0-23.0									

These are specifications for reference purposes only, not samples for sale.

