

# BRAMMER STANDARD

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## COPPER ALLOYS

Part Number: **BS-CU-22**      Set of 22      ~7 mm THICK DISCS (BS 938-1 & 922B-3 ~12mm thick)

CDA Nr.	Number	Cu	Sn	Pb	Zn	Fe	Ni	Al	Si	Mn	P	As	Sb	C	S	
110	BS 110C	99.97	(0.0002)	(0.0003)	(0.004)	(0.002)	(0.0005)	(0.0009)	(0.0009)	(0.0004)	0.0016	(0.0001)	(0.0003)	(0.002)	0.0008	O: 0.0009
172	BS 172Be-1	97.68	0.033	(0.002)	0.007	0.052	0.039	(0.02)	0.055	0.001	0.003	(0.001)	----	(0.001)	----	Be: 1.89 Co: 0.206
360	BS 360A	61.42	0.13	2.51	35.63	0.151	0.058	<0.001	<0.005	0.0007	0.001	0.002	0.008	(0.0032)	(0.0003)	
464	BS 464A	60.6	0.62	0.056	38.73	0.013	0.004	(0.001)	<0.01	0.0002	0.012	<0.002	(0.001)	(0.0006)	0.001	
482	BS 482A	60.0	0.65	0.50	38.8	0.020	(0.007)	(0.003)	(0.002)	<0.002	<0.003	<0.002	0.0012	(0.0015)	<0.002	
510	BS 510A	96.10	4.6	0.016	0.21	0.005	0.020	<0.002	<0.003	<0.002	0.11	0.0008	(0.003)	(0.0006)	0.008	
544	BS 544A	88.4	4.42	4.16	3.42	0.092	0.16	(0.0005)	<0.002	<0.002	0.021	0.011	0.040	0.003	0.038	
623	BS 623A	88.13	0.002	0.001	0.008	2.19	0.146	9.12	0.014	0.273	<0.002	(0.006)	<0.002	(0.002)	(<0.0005)	
630	BS 630B	80.8	0.0289	0.0056	0.254	3.90	4.88	9.78	0.0166	0.281	0.0028	0.0007	<0.0005	0.0067	0.0013	
642	BS 642A	91.0	0.018	0.001	0.011	0.17	0.025	6.70	1.80	0.005	0.001	<0.002	(<0.002)	0.001	<0.001	
655	BS 655A	95.74	0.07	0.008	0.02	0.075	0.008	(0.002)	3.14	0.91	(0.004)	<0.002	<0.002	(0.0006)	(0.0003)	
675	BS 675B	58.7	0.92	0.071	39.3	1.10	0.0071	<0.005	<0.005	0.175	0.0020	0.0009	0.0011	<0.001	0.0002	
706	BS 706B	87.00	0.006	0.006	0.054	1.56	10.9	(<.003	<0.002	0.61	0.009	<0.0005	<0.002	(0.004)	0.009	
715	BS 715A	69.0	0.008	(0.007)	0.10	0.61	30.22	(0.01)	0.10	0.82	0.006	(0.0014)	(0.003)	0.03	0.001	
863	BS 863B	[62.4]	0.033	0.0205	26.1	2.84	0.081	5.25	0.0103	2.97	0.0010	0.0004	0.0012	0.0028	0.0007	
903	BS 903B	86.7	7.9	0.10	4.39	0.049	0.50	(0.001)	0.002	0.0004	0.073	0.003	0.003	(0.0004)	0.006	
922	BS 922B-1	88.4	5.8	1.33	3.95	0.010	0.61	(0.001)	(0.001)	(0.002)	0.037	0.001	0.002	----	----	Ag: (0.001)
929	BS 929	85.3	9.07	1.98	0.0055	0.0030	3.37	(<0.00005)	(<0.001)	(<0.00005)	0.119	0.0017	0.0146	(<0.005)	0.0026	
938	BS 938-1	77.1	7.16	14.8	0.26	0.015	0.49	(<0.002)	(<0.004)	(0.001)	0.059	(0.004)	0.033	----	0.009	
954	BS 954C	83.9	0.08	0.050	0.09	3.9	1.38	10.21	0.07	0.29	0.011	(0.006)	<0.003	(0.004)	(<0.0005)	
955	BS 955C	80.6	0.003	0.003	0.15	4.04	4.31	10.68	0.025	0.06	0.012	(<0.002)	(<0.002)	----	----	
14500	BS 14500	99.4	0.0002	0.0008	0.004	0.0041	(<0.0003)	(<0.0002)	(<0.002)	0.00004	0.0075	(<0.0005)	(<0.001)	0.0005	0.0033	

CDA Nr. = Copper Development Association Grade Number

Certificates of Analysis are supplied for each certified reference material listed in the set.