

BROOKSIDE METAL COMPANY LTD.

LEAD BRONZE

NATIONALITY	ALLOY DESIGNATION	Cu	Sn	Pb	Zn	Fe	Ni	Sb	P	Al	Si	Mn	S	As	TOTAL IMPURITIES
EUROPEAN	BS EN 1982:2008 CuSn10Pb10-B (CB495K)	78.0-81.5	9.2-11.0	8.2-10.5	2.0 MAX.	0.20 MAX.	2.0 MAX.	0.5 MAX.	0.10 MAX.	0.01 MAX.	0.01 MAX.	0.2 MAX.	0.08 MAX.		
U.K.	BS 1400 1985 LB2	BAL.	9.2-11.0	9.0-10.5	1.0 MAX.	0.15 MAX.	2.0 MAX.	0.5 MAX.	0.05 MAX.	0.01 MAX.	0.02 MAX.	0.2 MAX.	0.1 MAX.	-	0.50 MAX. EXCL. Sb+P+Ni.
GERMANY	DIN 17656 1973 GB CuPb10Sn	78.0-81.0*	9.3-11.0	8.5-10.5	0.8 MAX.	0.15 MAX.	1.3 MAX.	0.30 MAX.	0.03 MAX.	0.01 MAX.	0.01 MAX.	0.10 MAX.	0.08 MAX.	0.10 MAX.	TOTAL OTHERS 0.4 MAX. EXCL. Ni+Sb+Zn.
U.S.A.	ASTM B30 C93700	78.0-82.0	9.0-11.0	8.0-11.0	0.8 MAX.	0.15 MAX.	1.0 MAX.	0.55 MAX.	0.15 MAX.	0.005 MAX.	0.005 MAX.	-	0.08 MAX.	-	TOTAL OTHERS 0.20 MAX.
NORWAY	NS 16 540 1977	78.0-81.0	9.3-11.0	8.5-10.5	2.0 MAX.	0.15 MAX.	2.0 MAX.	0.5 MAX.	0.05 MAX.	0.01 MAX.	0.01 MAX.	0.2 MAX.	0.10 MAX.	-	
DENMARK	DS 3001 5640 1978	78.0-81.0	9.3-11.0	8.5-10.5	2.0 MAX.	0.15 MAX.	2.0 MAX.	0.5 MAX.	0.05 MAX.	0.01 MAX.	0.01 MAX.	0.2 MAX.	0.10	-	
SWEDEN	SIS 15 5640 1977	70.0-81.0	9.3-11.0	8.5-10.5	1.0 MAX	0.15 MAX.	2.0 MAX.	0.5 MAX.	0.05 MAX.	0.01 MAX.	0.1 MAX.	0.2 MAX.	0.10 MAX.	-	Al+Si 0.01 MAX.
EUROPEAN	BS EN 1982:2008 CuSn7Pb15-B (CB496K)	74.0-79.5	6.2-8.0	13.2-17.0	2.0 MAX.	0.20 MAX.	0.5-2.0	0.5 MAX.	0.10 MAX.	0.01 MAX.	0.01 MAX.	0.20 MAX	0.08 MAX.		
U.K.	BS 1400 1985 LB1	BAL.	8.0-10.0	13.5-16.5	1.0 MAX.	-	2.0 MAX.	0.5 MAX.	0.1 MAX.	-	-	-	0.1 MAX.	-	0.30 MAX. EXCL. Sb+Ni.
GERMANY	DIN 17656 1973 GB CuPb15Sn	75.0-78.5*	7.3-9.0	13.5-16.5	2.0 MAX.	0.15 MAX.	1.8 MAX.	0.4 MAX.	0.3 MAX.	0.01 MAX.	0.01 MAX.	0.10 MAX.	0.08 MAX.	0.10 MAX.	0.4 MAX. EXCL. Ni+Sb+Zn.
U.S.A.	ASTM B30 C93800 (SAE 67)	75.0-79.0	6.3-7.5	13.0-16.0	0.8 MAX.	0.15 MAX.	1.0 MAX.	0.80 MAX.	0.05 MAX.	0.005 MAX.	0.005	-	0.08 MAX.	-	0.20 MAX.
ITALY	UNI 7013-72-4A G CuSn8Pb15	BAL.	7.0-9.0	13.0-17.0	1.0 MAX.	0.15 MAX.	2.0 MAX.	0.50 MAX.	0.05 MAX.	0.01 MAX.	0.01 MAX.	0.20 MAX.	-	-	TOTAL IMPURITIES EXCLUDING Zn, Ni+P 1.0 MAX.
EUROPEAN	BS EN 1982:2008 CuSn5Pb9-B (CB494K)	80.0-86.5	4.2-6.0	8.2-10.0	2.0 MAX.	0.20 MAX.	2.0 MAX.	0.5 MAX.	0.10 MAX.	0.01 MAX.	0.01 MAX.	0.2 MAX.	0.08 MAX.		
U.K.	BS 1400 1985 LB4	BAL.	4.2-6.0	8.5-10.0	2.0 MAX.	0.15 MAX.	2.0 MAX.	0.5 MAX.	0.05 MAX.	-	0.02 MAX.	0.2 MAX.	0.1 MAX.	-	0.50 MAX. EXCL. SB+Ni.
U.S.A.	ASTM B30 C93500	83.0-86.0	4.3-6.0	8.0-10.0	2.0 MAX.	0.20 MAX.	1.0 MAX.	0.30 MAX.	0.05 MAX.	0.005 MAX.	0.005 MAX.	-	0.08 MAX.	-	0.20 MAX.
EUROPEAN	BS EN 1982:2008 CuSn5Pb20-B (CB497K)	70.0-77.5	4.2-6.0	19.0-23.0	2.0 MAX.	0.20 MAX	0.5-2.5	0.75 MAX.	0.10 MAX.	0.01 MAX.	0.01 MAX.	0.20 MAX	0.08 MAX.		
U.K.	BS 1400 1985 LB5	BAL.	4.0-6.0	19.0-23.0	1.0 MAX.	0.15 MAX.	2.0 MAX.	0.50 MAX.	0.10 MAX.	0.01 MAX.	0.01 MAX.	0.2 MAX.	0.1 MAX.	-	0.30 MAX.EXCL. Sb+Ni.
GERMANY	DIN 17656 1973 GB CuPb20Sn	70.0-75.0*	3.7-5.5	18.5-23.0	2.0 MAX.	0.15 MAX.	2.3 MAX.	0.4 MAX.	0.03 MAX.	0.01 MAX.	0.01 MAX.	0.10 MAX.	0.08 MAX.	-	0.4 MAX. EXCL. Ni+Sb+Zn.
ITALY	UNI 7013-72-5A	BAL.	4.0-6.0	19.0-23.0	1.5 MAX.	0.15 MAX.	2.0 MAX.	0.75 MAX.	0.05 MAX.	0.01 MAX.	0.01 MAX.	0.20 MAX	-	-	TOTAL IMPURITIES EXCLUDING Zn+Ni+Sb+P 0.5 MAX.
NORWAY	NS 16 544 1977	70.0-77.5*	4.0-6.0	19.0-23.0	2.0 MAX.	0.15 MAX.	2.5 MAX.	0.75 MAX.	0.05 MAX.	0.01 MAX.	0.01 MAX.	0.2 MAX.	0.10 MAX.	-	Al+Si 0.01 MAX.
U.S.A.	ASTM B30 C94100	72.0-79.0	4.7-6.5	15.0-21.7	3.0 MAX.	0.10 MAX.	0.8 MAX.	0.7 MAX.	0.05 MAX.	0.005 MAX.	0.005 MAX.	-	0.08 MAX.	-	

*NICKEL MAY COUNT AS COPPER