



HYOZMA PRECISION CASTINGS LTD

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COPPER BASED ALLOYS

British Standard Specification BS 1400	CHEMICAL COMPOSITION % (Max. unless stated otherwise)									MECHANICAL PROPERTIES			CHARACTERISTICS & TYPICAL APPLICATIONS
	Cu	Sn	Zn	Pb	Ni	Fe	Al	Mn	OTHERS	U.T.S. N/mm2 Minimum	P.S. N/mm2 Minimum	Elong % min	
Leaded Gunmet LG2 85/5/5/5	BAL	4.0 / 6.0	4.0 / 6.0	4.0 / 6.0	2	-	-	-	-	200	100+	13	Moderate strength and good corrosion resistance to sea water, Pump bodies, cocks, bearings and gears with low loads and adequate lubrication.
Phosphor Bronze PB 1 PB 2	BAL BAL	10.0 min. 11.0 / 13.0	0.05 0.30	0.25 0.50	0.10 0.50	0.10 0.15	0.01 0.01	- -	P 0.50min. P 0.15min.	220 220	130+ 130+	3 5	Resistant to sea water, dilute acids and boiler feed water. Good bearing alloy for high loads with good lubrication.
Aluminium bronze AB2	BAL	-	0.5	-	4.0/5.5	4.0/5.5	8.8 / 10.0	1.5	-	640	250	13	Tough, high strength material, resistant to corrosion from sea water and acids. Difficult alloy to cast due to dross and narrow freezing range.
Brass SCB3	63.0/70.0	1.5	BAL	1.0 / 3.0	1	0.75	-	-	-	-	-	-	General purpose engineering material with good machinability. Not suited to sea water or boiler feed water applications.
High Tensile Brass HTB1	55 min	1	BAL	0.5	1	0.7/2.0	0.5 / 2.5	3	-	470	170+	18	Strong alloy, resistant to sea water corrosion. Used for ships propellers.