

Alloy Products & Technical Specifications

Aluminium / Copper

	ALUMINIUM		COPPER	
	ALUMINIUM BASE DIE CASTING ALLOY	ALUMINIUM BASE MASTER ALLOY	GUNMETAL 85/5/5/5	COPPER BASE MASTER ALLOY
CHEMICAL COMPOSITION	Al Cu Si Mn Alloy (equivalent to LM 4) Al Si Alloy (equivalent to LM 6) Al Cu Si Alloy (equivalent to LM 24) All other Al Alloys as per IS, BS, ASTM and other International Specification.	As per IS 2047/1979 10% Copper Hardner 10% Manganese Hardner 10% Nickel Hardner 5% Chromium Hardner 5% Titanium Hardner 4% Zirconium Hardner	As per: IS 318-1981 Grade 2. BS.1400-LG2. Tin: 4.0-6.0%. Lead: 4.0-6.0%. Zinc: 4.0-6.0%. Nickel: 2.0%(max.) Total Other Elements: 0.70% (max) Copper : Remainder	As per IS 5743/1970 14% Phosphor Copper 30% Manganese Copper 10% Silicon Copper 10% Arsenical Copper 51% Copper Nickel 5% Chromium Copper
APPLICATIONS	Aluminium Pressure Die Casting Alloys are increasingly used in the motor car and the aircraft industries. Motor cars, scooters and motor cycles are now largely equipped with aluminium die cast parts. The crank and gear casings, chain covers and cylinders heads, highly stressed hubs and brake discs are frequently produced by aluminium pressure die casting. Among other industries which avail themselves of such parts are the precision engineering and optical industries and the factories which make fittings and furniture, miniature machines and toys.	Used in Foundries	Gunmetal 85/5/5/5 is easy to cast and possess very good machinability and hence it enjoys the confidence on manufactures for general foundry work. It is used for miscellaneous industrial castings, such as valves, pump bodies, bearing shells and steam fittings	Used in Foundries