



**P.I. CASTINGS LTD**

Davenport Lane, Altrincham, Cheshire  
WA14 5DS, England

Telephone +44(0) 161 925 5160

Email: sales@pi-castings.co.uk

Website: www.pi-castings.co.uk

**ALUMINIUM ALLOYS & ZINC**

British Standard Specification (Afnor & Werkstoff) [USA]	CHEMICAL COMPOSITION % (Max. unless stated otherwise)									HEAT TREATMENT CONDITION	MECHANICAL PROPERTIES			CHARACTERISTICS & TYPICAL APPLICATIONS
	Cu	Mg	Si	Fe	Mn	Ni	Zn	Ti	OTHERS		U.T.S.	P.S.	Elong	
											N/mm2 Minimum	N/mm2 Minimum	% min	
<b>BS 1490 LM25</b> (A-S7G; 3.2371)	0.10	0.2 / 0.6	6.5 / 7.5	0.5	0.3	0.1	0.1	0.2	-	M TE TB7 TF	130 150 160 230	- - - -	2 1 2.5 -	Useful general purpose alloy with a range of mechanical properties achieved by variations in heat treatment. Good corrosion resistance and pressure tight properties. Excellent castability.
<b>BS L99</b> (A-S7G0.3; 3.2371)	0.10	0.2 / 0.45	6.5 / 7.5	0.2	0.1	0.1	0.1	0.2	-	TF	230	185	2	High strength, good corrosion resistance alloy. Excellent castability for high quality castings.
[A356.0-T6]	0.2	0.2 / 0.4	6.5 / 7.5	0.2	0.1	-	0.1	0.2	-	T6	228	186	3	Useful general purpose alloy with good strength and corrosion resistance. Good castability. [Properties shown for A356 are for AMS-A-21180 Class 11]
<b>BS L169</b> (A-S7 G0.6) [A357]	0.10 0.20	0.5 / 0.75 0.4 / 0.7	6.5 / 7.5 6.5 / 7.5	0.2 0.2	0.1 0.1	0.05 -	0.1 0.1	0.1 / 0.20 0.1 / 0.20	- Be 0.04/0.07#	TF T6	300 280	240 214	3.5 3	Comparable to A356 and BS L99, but exhibiting higher strength. Widely used for structural applications where the highest quality is required.
ZINC ZA12	0.5 / 1.2	0.02 / 0.03	-	-	-	-	Balance	-	Al 10.8 / 11.5	Not heat treated	275	207	1	Good casting alloy with excellent machinability and bearing properties.

# Various grades of A357 are available. We would supply excluding the Beryllium content.