



HYOZMA CASTINGS LTD

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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	
BS 1490 LM25 (A-S7G; 3.2371)	0.1	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.
BS L99 (A-S7G0.3; 3.2371)	0.1	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. (A-S7G0.3; 3.2371) 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]
BS L169 (A-S7 G0.6) [A357]	0.10 0.20	0.5 / 0.75 0.4 / 0.7	6.5 / 7.5	0.2 0.2	0.1 0.1	0.05 —	0.1 0.1	0.1 / 0.2 0.1 / 0.2	Be 0.04/0.07#	TF T6	300 280	240 214	3.5 3	Comparable to A356 and BS L99, but exhibiting higher (A-S7 G0.6) 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.