

# Material: BS 3100 Grade AL2

## Standard Specification for Steel Castings for General Engineering Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** BS 3100 Grade AL2 Steel Castings for General Engineering Purposes

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.250 max.
Silicon	Si %	0.600 max.
Manganese	Mn %	1.200 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.150 max.
Nickel	Ni %	0.400 max.
Copper	Cu %	0.300 max.
Other	Ot %	0.800 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Cast or Annealing or Normalizing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	485 - 655
Yield Strength in Mpa	275 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	20 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AL3	BS	British	Casting
UC 14	ONORM	Australia	Wire and Rod
1.0625	ONORM	Australia	Casting
GP 280 GH	ONORM	Australia	Casting
1.0625	NBN	Belgium	Casting
GP 280 GH	NBN	Belgium	Casting
1.0625	BDS	Bulgaria	Casting

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