



## 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			Heat Treatment	
Carbon	C %	0.250 max.	As Cast or Annealing or Normalizing or Hardening and Tempering	
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	<b>Mechanical Properties</b> 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	
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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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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