

Material: BS 3100 Grade AW1

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: BS 3100 Grade AW1 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 %	0.100 - 0.180	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.600 - 1.000		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 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	Mechanical Properties Tensile Strength in Mpa 460 min. Yield Strength in Mpa - Elongation in % 12 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 25 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1015.0000	SAE	USA	Casting
1015	AISI	USA	Casting
A 1040 1015	ASTM	USA	Casting
A 108 Grade 1015	ASTM	USA	Casting
A 29 1015	ASTM	USA	Casting
A 510 1015	ASTM	USA	Casting
A 512 Grade 1015	ASTM	USA	Casting

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