

Material: ASTM A 1040 1015

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 1040 1015 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 %	0.130 - 0.180
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.030 max.
Sulphur	S %	0.035 max.
Copper	Cu %	0.200 max.
Boron	B %	0.0005 - 0.0030
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	310 - 655
Yield Strength in Mpa	190 min.
Elongation in %	5 min.
Reduction of Area in %	40 - 50
Hardness in BHN	241 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AW1	BS	British	Casting
1015	SAE	USA	Casting
1015	AISI	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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