

Material: AS 1040

Standard Specification for Carbon Steels and Carbon Manganese Steels

Group: Ferrous Mild Steel Alloys

Sub Group: AS 1040 Carbon Steels and Carbon Manganese Steels

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.370 -0.440
Silicon	Si %	0.100 - 0.350
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	0.300 max.
Nickel	Ni %	0.350 max.
Molybdenum	Mo %	0.100 max.
Copper	Cu %	0.350 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As- Cast or Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	418 - 590
Yield Strength in Mpa	290 min.
Elongation in %	12 min.
Reduction of Area in %	35 - 40
Hardness in HB	149 - 170
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A915 Grade SC 1040	ASTM	USA	Casting
1040	AISI	USA	Casting
J04003	UNS	USA	Casting
1040	SAE	USA	Casting
1040	AMS	USA	Casting
A 108 1040	ASTM	USA	Casting
A 29 1040	ASTM	USA	Casting

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