

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			Heat Treatment	
Carbon	C %	0.370 - 0.440	As- Cast or Normalizing or Annealing or Hardening + Tempering	
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	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 -	
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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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