

Material: SAE 1039

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1039 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.370 - 0.440	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Boron	B %	0.0005 - 0.003		
Chromium	Cr %	0.150 max.		
Copper	Cu %	0.200 max.		
Molybdenum	Mo %	0.060 max.		
Nickel	Ni %	0.200 max.		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 560 - 610 Yield Strength in Mpa 300 min. Elongation in % 12 min. Reduction of Area in % 35 - 40 Hardness in HB 156 - 179 Impact in Joule -	
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-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10390	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1039	AISI	USA	Steel and Bar
A 1040 1039	ASTM	USA	Steel
A 29 1039	ASTM	USA	Steel and Bar
A 510 1039	ASTM	USA	Wire Rod and Round Wire
A 576 10L39	ASTM	USA	Steel and Bar
A 830 1039	ASTM	USA	Plates and Steel

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