

Material: SAE 1043

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

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1043 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 %	0.400 - 0.470	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.		
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	570 - 630
-	-	-	Yield Strength in Mpa	310 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	35 - 45
-	-	-	Hardness in HB	163 - 179
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10430	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1043	AISI	USA	Bar
A 1040 1043	ASTM	USA	Steel
A 29 1043	ASTM	USA	Bar
A 510 1043	ASTM	USA	Wire Rod
A 576 10L43	ASTM	USA	Steel and Bar
A 830 1043	ASTM	USA	Plate and Steel

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