

Material: SAE 1541

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, Plates, Strip, Sheets, Tubing and Forging

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1541 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, Plates, Strip, Sheets, Tubing and Forging

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

Grade Belongs to the Industry: Bars, Plates, Strip, Sheets, Tubing and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.360 - 0.440	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.350 - 1.650		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Boron	B %	0.0005 - 0.003		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 630 min. Yield Strength in Mpa 350 min. Elongation in % 10 min. Reduction of Area in % 30 - 45 Hardness in HB 184 - 321 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G15410	SAE	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1541	AISI	USA	Bar and Steel
A 29 1541	ASTM	USA	Bar and Steel
A 311 1541 Class A	ASTM	USA	Bar and Steel
A 311 1541 Class B	ASTM	USA	Bar and Steel
A 830 G15410	ASTM	USA	Plate and Steel
A 510 1541	ASTM	USA	Wire Rod, Round Wire and Steel

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