

Material: SAE 1552

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

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1552 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Bars, Wire Rods, Plates, Strip, Sheets and Tubing

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

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

Chemical Composition			Heat Treatment	
Carbon	C %	0.470 - 0.550	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.200 - 1.500		
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 680 - 740 Yield Strength in Mpa 410 min. Elongation in % 10 min. Reduction of Area in % 30 - 40 Hardness in HB 193 - 217 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G15520	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1552	AISI	USA	Steel and Bar
A 29 1552	ASTM	USA	Steel and Bar
A 510 1552	ASTM	USA	Wire Rod, Round Wire and Steel
A 830 1552	ASTM	USA	Plate and Steel
A 830 G15520	ASTM	USA	Plate and Steel
A 866 1552	ASTM	USA	Steel

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