

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
			-

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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