

Material: SAE 1527

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

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1527 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Plate, Strip, Sheets and Tubing

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

Grade Belongs to the Industry: Plate, Strip, Sheets and Tubing

Chemical Composition			Heat Treatment
Carbon	C %	0.220 - 0.290	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	
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	520 - 570	
Yield Strength in Mpa	280 min.	
Elongation in %	12 min.	
Reduction of Area in %	35 - 40	
Hardness in HB	149 - 163	
Impact in Joule	-	

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G15270	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1527	AISI	USA	Steel
A 29 1527	ASTM	USA	Steel and Bar
A 510 1527	ASTM	USA	Wire Rod, Round Wire and Steel
A 576 15L27	ASTM	USA	Steel and Bar
A 830 1527	ASTM	USA	Plate and Steel
A 830 G15270	ASTM	USA	Plate and Steel

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