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		
Carbon	C %	0.220 - 0.290
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Annealing or Normalizing or Hardening and Tempering

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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