

# Material: ASTM A 576 15L27

## Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 576 15L27 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel and Bar

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

**Grade Belongs to the Industry:** Steel and Bar

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 %	0.040 max.	
Sulphur	S %	0.050 max.	
Boron	B %	0.0005 - 0.003	
Lead	Pb %	0.150 - 0.350	
Silicon	Si %	0.100 max.	
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	SAE	USA	Plate, 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 830 1527	ASTM	USA	Plate and Steel
A 830 G15270	ASTM	USA	Plate and Steel

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