

## Material: SAE 1548

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SAE 1548 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

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

**Grade Belongs to the Industry:** Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.440 - 0.520	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.100 - 1.400		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Lead	Pb %	0.150 - 0.350		
Boron	B %	0.0005 - 0.003		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 640 - 730 Yield Strength in Mpa 370 min. Elongation in % 10 min. Reduction of Area in % 28 - 35 Hardness in HB 192 - 217 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G15480	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1548	AISI	USA	Steel and Bar
A 29 1548	ASTM	USA	Steel and Bar
A 510 1548	ASTM	USA	Wire Rod, Round Wire and Steel
A 576 15L48	ASTM	USA	Steel and Bar
A 830 1548	ASTM	USA	Plate and Steel
A 830 G15480	ASTM	USA	Plate and Steel

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