

# Material: AISI 1548

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** AISI 1548 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 %	0.440 - 0.520	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.100 - 1.400		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Aluminium	Al %	0.020 max.		
Boron	B %	0.0005 - 0.003		
Copper	Cu %	0.200 max.		
Niobium	Nb %	0.015 max.		
Silicon	Si %	0.100 max.		
Vanadium	V %	0.020 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	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	-
Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
G15480	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing	
1548	SAE	USA	Steel	
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	

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)