

Material: AISI 1078

Standard Specification For Carbon Steel Compositions For Forging To Hot-Rolled Steel and Bar

Group: Ferrous Mild Steel Alloys

Sub Group: AISI 1078 Carbon Steel Compositions For Forging To Hot-Rolled Steel and Bar

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

Grade Belongs to the Industry: Steel and Bar

Chemical Composition		
Carbon	C %	0.700 - 0.850
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.040 max.
Sulphur	S %	0.035 max.
Boron	B %	0.0005 - 0.003
Aluminium	Al %	0.020 max.
Copper	Cu %	0.200 min.
Niobium	Nb %	0.015 max.
Silicon	Si %	0.100 max.
Vanadium	V %	0.020 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	650 - 690
Yield Strength in Mpa	380 min.
Elongation in %	10 min.
Reduction of Area in %	30 - 40
Hardness in HB	192 - 207
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10780	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1078	SAE	USA	Steel
A 830 G10780	ASTM	USA	Plate and Steel
A 713 G10780	ASTM	USA	Steel and Wire
A 576 10L78	ASTM	USA	Steel and Bar
A 830 1078	ASTM	USA	Plate and Steel
A 713 Grade 1078	ASTM	USA	Steel and Wire

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



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India