

## Material: ASTM A 1040 1025

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 1040 1025 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		
Carbon	C %	0.220 - 0.280
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.030 max.
Sulphur	S %	0.035 max.
Boron	B %	0.0005 -0.003
Copper	Cu %	0.200 min.
Silicon	Si %	0.100 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	365 - 896
Yield Strength in Mpa	205 min.
Elongation in %	5 min.
Reduction of Area in %	40 - 50
Hardness in HB	116 - 126
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10250	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1025	SAE	USA	Steel, Sheet, Strip and Plate
1025	AISI	USA	Steel, Sheet, Strip and Plate
A 108 Grade 1015	ASTM	USA	Steel and Bar
A 29 1025	ASTM	USA	Steel and Bar
A 29 M1025	ASTM	USA	Steel and Bar
A 510 1025	ASTM	USA	Wire Rod and Round 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](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



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