

Material: AISI 1075

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 1075 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		
Carbon	C %	0.700 - 0.800
Manganese	Mn %	0.400 - 0.700
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Boron	B %	0.0005 - 0.003
Aluminium	Al %	0.020 min.
Copper	Cu %	0.200 min.
Niobium	Nb %	0.015 min.
Silicon	Si %	0.100 max.
Vanadium	V %	0.020 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	1025 min.
Yield Strength in Mpa	696 min.
Elongation in %	17.6 min.
Reduction of Area in %	58.2 min.
Hardness in BHN	-
Impact in Joule	21.7 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10750	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1075	SAE	USA	Steel
A 1040 1075	ASTM	USA	Steel
A 29 1075	ASTM	USA	Steel and Bar
A 510 1075	ASTM	USA	Steel
A 713 G10750	ASTM	USA	Steel
A 713 Grade 1075	ASTM	USA	Steel

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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