



Material - AISI 1070

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

Group - Ferrous Mild Steel Alloys

Sub Group - AISI 1070 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			Heat Treatment	
Carbon	C %	0.650 - 0.750	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Boron	B %	0.0005 - 0.003		
Copper	Cu %	0.200 min.		
Aluminium	Al %	0.200 min.		
Niobium	Nb %	0.015 min.		
Silicon	Si %	0.100 max.	Mechanical Properties	
Vanadium	V %	0.020 min.	Tensile Strength in Mpa	640 - 700
Iron	Fe %	Balance	Yield Strength in Mpa	390 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	30 - 45
-	-	-	Hardness in HB	192 - 212
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10700	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1070	SAE	USA	Steel
A 510 1070	ASTM	USA	Wire Rods, Round Wire and Steel
A 576 10L70	ASTM	USA	Steel and Bar
A 713 G10700	ASTM	USA	Steel and Wire
A 713 Grade 1070	ASTM	USA	Steel and Wire
A 830 1070	ASTM	USA	Plate and Steel

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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