

Material: AISI 1065

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

Group: Ferrous Mild Steel Alloys

Sub Group: AISI 1065 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 %	0.600 - 0.700	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 max.		
Niobium	Nb %	0.0150 min.		
Silicon	Si %	0.100 max.		
Aluminium	Al %	0.200 max.		
Vanadium	V %	0.020 min.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 630 - 690 Yield Strength in Mpa 380 min. Elongation in % 10 min. Reduction of Area in % 30 - 45 Hardness in HB 187 - 207 Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10650	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1065	SAE	USA	Plate, Strip, Sheet and Tubing
A 830 G10650	ASTM	USA	Plate and Steel
A 713 G10650	ASTM	USA	Steel and wire
A 682 G10650	ASTM	USA	Steel and Strip
A 682 Grade 1065	ASTM	USA	Steel and Strip
A 684 Grade 1065	ASTM	USA	Steel and Strip

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