

Material: ASTM A 684 Grade 1065

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 684 Grade 1065 Carbon Steel Compositions For Forging To Hot-Rolled Steel and Strip

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

Grade Belongs to the Industry: Steel and Trips

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 %	0.030 max.		
Sulphur	S %	0.035 max.		
Silicon	Si %	0.150 - 0.300		
Chromium	Cr %	0.250 max.		
Copper	Cu %	0.300 max.		
Molybdenum	Mo %	0.100 max.		
Nickel	Ni %	0.300 max.		
Silicon	Si %	0.150 - 0.300		
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
1065	AISI	USA	Steel and Bar
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

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