

Material: ASTM A 684 Grade 1055

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 684 Grade 1055 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Strip and Steel

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

Grade Belongs to the Industry: Strip and Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.500 - 0.600	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.		
Chromium	Cr %	0.250 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	650 - 660
-	-	-	Yield Strength in Mpa	360 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	30 - 40
-	-	-	Hardness in HB	192 - 197
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G10550	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1055	SAE	USA	Strip and Steel
1055	AISI	USA	Steel and Bar
A 830 G10550	ASTM	USA	Plate and Steel
A 713 Grade 1055	ASTM	USA	Wire
A 713 G10550	ASTM	USA	Steel and Wire
A 682 G10550	ASTM	USA	Strip and Steel

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