

Material: ASTM A 1040 1118

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 1040 1118 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.140 - 0.200	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.300 - 1.600		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.080 - 0.130		
Silicon	Si %	0.100 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties Tensile Strength in Mpa 345 - 515 Yield Strength in Mpa 205 - 415 Elongation in % 5 - 25 Reduction of Area in % - Hardness in HB 55 - 80 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G11180	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1118	SAE	USA	Steel
1118	AISI	USA	Steel
A 576 1118	ASTM	USA	Steel and Bar
A 108 Grade 1118	ASTM	USA	Steel and Bar
A 29 1118	ASTM	USA	Steel and Bar
A 510 1118	ASTM	USA	Wire Rod, Round Wire and Steel

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