

Material: ASTM A 108 Grade 1118

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 108 Grade 1118 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished 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 %	0.140 - 0.200	
Manganese	Mn %	1.300 - 1.600	
Phosphorus	P %	0.040 max.	
Sulphur	S %	0.080 - 0.130	
Silicon	Si %	0.100 max.	
Lead	Pb %	0.150 - 0.350	
Iron	Fe %	Balance	
-	-	-	As Raw or Annealing or Normalizing or Hardening and Tempering
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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		-	

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 1040 1118	ASTM	USA	Steel
A 29 1118	ASTM	USA	Steel and Bar
A 510 1118	ASTM	USA	Wire Rod, Round Wire and Steel

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