



## Material - AISI 1118

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

Group - Ferrous Mild Steel Alloys

Sub Group - AISI 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				
-	-	-				
-	-	-	<b>Mechanical Properties</b>			
-	-	-			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
A 576 1118	ASTM	USA	Steel and Bar
A 1040 1118	ASTM	USA	Steel
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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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