

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

Sub Group: *SAE 1138 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Steel*

Grade Belongs to the Industry: *Steel*

Chemical Composition			Heat Treatment	
Carbon	C %	0.340 - 0.400	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.080 - 0.130		
Lead	Pb %	0.150 - 0.350		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	-
			Yield Strength in Mpa	-
			Elongation in %	-
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G11380	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1138	AISI	USA	Steel
11L38	SAE	USA	Steel
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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