

Material: SAE 1033

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

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 1033 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 %	0.300 - 0.360	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Boron	B %	0.0005 - 0.003		
Copper	Cu %	0.200 min.		
Chromium	Cr %	0.150 max.		
Molybdenum	Mo %	0.060 max.		
Niobium	Nb %	0.200 max.		
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
G10330	UNS	USA	Bars, Wire Rods, Plates, Strip, Sheets and Tubing
1033	AISI	USA	Tubing
A 1040 1033	ASTM	USA	Steel
A 513 Grade 1033	ASTM	USA	Steel
A 830 1033	ASTM	USA	Steel and Plate
A 830 G10330	ASTM	USA	Steel and Plate
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