

Material: ASTM A 513 Grade 1033

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

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 513 Grade 1033 Carbon Steel Compositions For Forging To Hot-Rolled And Cold-Finished Tubing

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

Grade Belongs to the Industry: Tubing

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 %	0.035 max.		
Sulphur	S %	0.035 max.		
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	SAE	USA	Steel
1033	AISI	USA	Tubing
A 1040 1033	ASTM	USA	Steel
A 830 1033	ASTM	USA	Steel and Plate
A 830 G10330	ASTM	USA	Steel and Plate
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