

Material: ASME SA-513 1018

Standard Specification for Hot Rolled Medium and High Tensile Structural Steel

Group: Ferrous Mild Steel Alloy

Sub Group: ASME SA-513 1018 Hot Rolled Medium and High Tensile Structural Steel

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

Grade Belongs to the Industry: Steel, Plate, Wire, Rod, Tube and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.140 - 0.200	Quench and Temper	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
Mechanical Properties				
-	-	-	Tensile Strength in Mpa	400 - 440
-	-	-	Yield Strength in Mpa	220 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	40 - 50
-	-	-	Hardness in BHN	241 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2062 E 350	IS	India	Steel, Plate, Wire, Rod, Tube and Forging
1018	SAE	USA	Steel, Plate, Wire, Rod, Tube and Forging
1018	AISI	USA	Steel, Plate, Wire, Rod, Tube and Forging
A 830 G10180	ASTM	USA	Steel, Plate, Wire, Rod, Tube and Forging
G10180	UNS	USA	Steel, Bar, Wire, Rod, Tube and Forging
SA-29 1018	ASME	USA	Steel, Plate, Wire, Rod, Tube and Forging
SA-311 1018 Class A	ASME	USA	Steel, Plate, Wire, Rod, Tube and Forging

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