Material: ASTM A 830 G10180

Standard Specification for Hot Rolled Medium and High Tensile Structural Steel

Group: *Ferrous Mild Steel Alloy*
Sub Group: *ASTM A 830 G10180 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 %	0.150 - 0.200	Quench and Temper	
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.040 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-	**Mechanical Properties**	
-	-	-	Tensile Strength in Mpa	380 - 690
-	-	-	Yield Strength in Mpa	220 min.
-	-	-	Elongation in %	13 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	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
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
SA-513 1018	ASME	USA	Steel, Plate, Wire, Rod, Tube and Forging

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