



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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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