

Standard Specification for Hot Rolled Medium and High Tensile Structural Steel

Sub Group: *ASME SA-29 1018 Hot Rolled Medium and High Tensile Structural Steel*

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	
Silicon	Si %	0.100 - 0.200		
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Boron	B %	0.0005 – 0.003		
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
A 830 G10180	ASTM	USA	Steel, Plate, Wire, Rod, Tube and Forging
G10180	UNS	USA	Steel, Bar, 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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