

# 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		
-	-	-		
-	-	-	<b>Mechanical Properties</b> 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 -	
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-	-	-		
-	-	-		
-	-	-		
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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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