

## Material: ASTM A732 2A

### Standard Specification for Castings, Investment, Carbon and Low Alloy Steel for General Application, and Cobalt Alloy for High Strength at Elevated Temperatures

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A732 / A7323M Casting, Investment, Carbon and Low Alloy Steel for General Application

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

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.250 - 0.350	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.200 - 1.000		
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.350 max.		
Nickel	Ni %	0.500 max.		
Copper	Cu %	0.500 max.		
Other	Ot %	1.000 max.		
Tungsten	W %	0.100 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa 448 min. Yield Strength in Mpa 310 min. Elongation in % 25 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1030	AISI	USA	Forging, Bar, Wire, and Shape
J03011	UNS	USA	Casting
1.1811	WN	Germany	Casting
161-480	BS	British	Casting
1.5408	EN	European Union	Rod, Bars, Wire and Extrusion
SCPL1	JIS	Japan	Casting
A732 2Q	ASTM	USA	Casting

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