

## Material: ASTM A732 5N

**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 %	0.300 max.	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.800		
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.		
Vanadium	V %	0.050 - 0.150	<b>Mechanical Properties</b> Tensile Strength in Mpa 586 min. Yield Strength in Mpa 379 min. Elongation in % 22 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
Mo + W	Mo% + W%	0.250 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
6120	AISI	USA	Forging, Bar, Wire, and Shape
J13052	UNS	USA	Casting
200-400 W	JIS	Japan	Casting
B2	BS	British	Forging
B4	BS	British	Forging
B5	BS	British	Casting
B6	BS	British	Forging

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

**Customer Care:** +91-99090 45075 Email: info@icastllp.com