

## 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		
Carbon	C %	0.300 max.
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
Mo + W	Mo% + W%	0.250 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
Annealing or Normalizing or Hardening + Tempering	

Mechanical Properties	
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	-

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

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