

Material: ASTM A732 3A

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 %	0.350 - 0.450
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.
Tungsten	W %	0.100 max.
Other	Ot %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Annealing or Normalizing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	517 min.
Yield Strength in Mpa	331 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
1040	AISI	USA	Forging, Bar, Wire, and Shape
J04002	UNS	USA	Casting
1.119	WN	Germany	Steel
A3	BS	British	Casting
42 CD 4 M	AFNOR NF	France	Casting
A732 1Q	ASTM	USA	Casting
A732 3Q	ASTM	USA	Casting

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