

Material: ASTM A732 1A

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 %	0.150 - 0.250
Silicon	Si %	0.200 - 1.000
Manganese	Mn %	0.200 - 0.600
Phosphorus	P %	0.040 max.
Sulphur	S %	0.045 max.
Chromium	Cr %	0.350 max.
Nickel	Ni %	0.500 max.
Mo + W	Mo% + W%	0.250 max.
Copper	Cu %	0.500 max.
Vanadium	V %	0.250 max.
other	Ot %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
Annealing or Normalizing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	414 min.
Yield Strength in Mpa	276 min.
Elongation in %	24 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1020	AISI	USA	Forging, Bar, Wire, and Shape
J02002	UNS	USA	Casting
1.0414	WN	Germany	Cold Rolling and Rod
1.1137	EN	European Union	Cold Rolling and Rod
A216 WCB	ASTM	USA	Casting
1.0619	WN	Germany	Casting
A352 LCA	ASTM	USA	Casting

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