

Material - ASTM A732 Grade 31

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

Group - Non Ferrous Cobalt 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 %	0.450 - 0.550	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	24.500 - 26.500		
Nickel	Ni %	9.500 - 11.500		
Tungsten	W %	7.000 - 8.000		
Iron	Fe %	2.000 max.	Mechanical Properties	
Boron	B %	0.005 - 0.015	Tensile Strength in Mpa	380 min.
Cobalt	Co %	Balance	Yield Strength in Mpa	-
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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