



Material - ASTM A 732 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 Nickel Alloys

Sub Group - ASTM A 732 Grade 31 Castings, Investment, Carbon and Low Alloy Steel for General Application and Cobalt alloy for High Strength at Elevated Temperatures

Application - Intended for Valve, Pump, General Engineering, Automotive, Medical and other Industries

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.450 - 0.550	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	24.500 - 26.500		
Sulphur	S %	0.040 max.		
Tungsten	W %	7.000 - 8.000		
Phosphorus	P %	0.040 max.		
Boron	B %	0.005 - 0.015	Mechanical Properties Tensile Strength in Mpa 380 min. Yield Strength in Mpa - Elongation in % 10 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
Iron	Fe %	2.000 max.		
Nickel	Ni %	9.500 - 11.500		
Cobalt	Co %	Balance		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 567 Grade 2	ASTM	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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