

Material - ISO 5832-12 Alloy 2

Standard Specification for Cobalt-Based alloy

Group - Non-Ferrous Cobalt Alloys

Sub Group - ISO 5832-12 Alloy 2 Cobalt-Based alloy

Application - Intended for Valve, Pump, General Engineering, Automotive, Medical and other Industries Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.350		
Chromium	Cr %	26.000 - 30.000		
Molybdenum	Mo %	5.000 - 7.000	As-Cast or Annealing	
Nickel	Ni %	1.000 max.		
Iron	Fe %	0.750 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Nitrogen	N %	0.250 max.		
Cobalt	Co %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	897 min.
-	-	-	Yield Strength in Mpa	517 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
R31538	UNS	USA	Casting	
F1537 Alloy 2	ASTM	USA	Casting	
F799 Alloy 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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