

Material: UNS R31537

Standard Specification for Cobalt-Based alloy

Group: Non-Ferrous Cobalt Alloys

Sub Group: UNS R31537 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 %	0.149 max.	As-Cast or Annealing	
Chromium	Cr %	26.000 - 30.000		
Molybdenum	Mo %	5.000 - 7.000		
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 HRC	25 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
F 1537 Alloy 1	ASTM	USA	Casting
5832-12 Alloy 1	ISO	International	Casting
7402-2	JIS	Japan	Casting
F 2527 R31537	ASTM	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com