



Material - UNS R31539

Standard Specification for Cobalt-Based alloy

Group - Non-Ferrous Cobalt Alloys

Sub Group - UNS R31539 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 %	0.350 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.		
Aluminium	Al %	1.000 max.		
Lanthanum	La %	0.500 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 % 12 min. Hardness in HRC 25 - 35 min. Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
F1537 Alloy 3	ASTM	USA	Casting
F799 Alloy 3	ASTM	USA	Casting
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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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