



Material - ASTM F 1537 Alloy 1

Standard Specification for Cobalt - 28Chromium - 6Molybdenum Alloys for Surgical Implants

Group - Non-Ferrous Cobalt Alloys

Sub Group - ASTM F 1537 Alloy 1 Cobalt - 28Chromium - 6Molybdenum Alloys for Surgical Implants

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.140 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.		
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 - 35 min.
-	-	-	Impact in Joule	-

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