

Material: ASTM F 2527 R31537

Standard Specification for Seamless Cobalt Alloy Small Diameter Tubing for Surgical Implants

Group: Non-Ferrous Cobalt Alloys

Sub Group: ASTM F 2527 R31537 Seamless Cobalt Alloy Small Diameter Tubing for Surgical Implants

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.140 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing	

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
R31537	UNS	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-

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