

Material: ASTM F562 R30035

Standard Specification for Cobalt-35 Nickel-20 Chromium-10 Molybdenum Alloy for Surgical Implant Applications

Group: Non-Ferrous Cobalt Alloys

Sub Group: ASTM F562 R30035 Cobalt-35 Nickel-20 Chromium-10 Molybdenum Alloy for Surgical Implant Applications

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.025 max.	As-Cast or Annealing	
Chromium	Cr %	19.000 - 21.000		
Molybdenum	Mo %	9.000 - 10.500		
Nickel	Ni %	33.000 - 37.000		
Iron	Fe %	1.000 max.		
Silicon	Si %	0.150 max.		
Manganese	Mn %	0.150 max.		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.010 max.		
Titanium	Ti %	1.000 max.		
			Mechanical Properties	
Boron	B %	0.015 max.	Tensile Strength in Mpa	793 - 2482
Cobalt	Co %	Balance	Yield Strength in Mpa	241 - 586
-	-	-	Elongation in %	1.800 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
F 2527 R30035	ASTM	USA	Casting
R30035	UNS	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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