

Material: ASTM F 563 R30563

Standard Specification for Cobalt-20Nickel-20Chromium-3.5Molybdenum- 3.5Tungsten-5Iron Alloy for Surgical Implant Applications

Group: Non-Ferrous Cobalt Alloys

Sub Group: ASTM F 563 R30563 Cobalt-20Nickel-20Chromium-3.5Molybdenum- 3.5Tungsten-5Iron 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 %	0.050 max.	As-Cast or Annealing	
Chromium	Cr %	18.000 - 22.000		
Molybdenum	Mo %	3.000 - 4.000		
Nickel	Ni %	15.000 - 25.000		
Iron	Fe %	4.000 - 6.000		
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Sulphur	S %	0.010 max.		
Tungsten	W %	3.000 - 4.000		
Titanium	Ti %	0.500 - 3.500		
Cobalt	Co %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	600 min.
-	-	-	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
R30563	UNS	USA	Casting
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