

Material: ASTM F 2527 R30008

Standard Specification for Alloy Wire and Strip for Surgical Implant Applications

Group: Non-Ferrous Cobalt Alloys

Sub Group: ASTM F 2527 R30008 Alloy Wire and Strip for Surgical Implant Applications

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

Grade Belongs to the Industry: Wire and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	As-Cast or Annealing	
Chromium	Cr %	18.500 - 21.500		
Molybdenum	Mo %	6.500 - 7.500		
Nickel	Ni %	15.000 - 18.000		
Cobalt	Co %	39.000 - 42.000		
Silicon	Si %	1.200 max.		
Manganese	Mn %	1.000 - 2.000		
Sulphur	S %	0.015 max.		
Phosphorus	P %	0.015 max.		
Beryllium	Be %	0.001 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 850 min. Yield Strength in Mpa 450 min. Elongation in % 1 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
F1058 Grade 2	ASTM	USA	Wire and Strip
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