

Material: ASTM F1058 Grade 1

Standard Specification for 40Cobalt-20Chromium-16Iron-15Nickel- 7Molybdenum Alloy Wire and Strip for Surgical Implant Applications

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM F1058 Grade 1 40Cobalt-20Chromium-16Iron-15Nickel- 7Molybdenum 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 %	19.000 - 21.000		
Molybdenum	Mo %	6.000 - 8.000		
Nickel	Ni %	14.000 - 16.000		
Cobalt	Co %	39.000 - 41.000		
Silicon	Si %	1.200 max.		
Manganese	Mn %	1.500 - 2.500		
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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
F 2527 R30003	ASTM	USA	Casting
R30008	UNS	USA	Casting
7402-4	JIS	Japan	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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