

## Material: ASTM F1058 Grade 2

### Standard Specification for Alloy Wire and Strip for Surgical Implant Applications

**Group:** Non-Ferrous Cobalt Alloys

**Sub Group:** ASTM F1058 Grade 2 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 %	0.010 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 R30008	ASTM	USA	Wire and Strip
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