

# 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		
Carbon	C %	0.150 max.
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing

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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