



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

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	<th colspan="2">Mechanical Properties</th>		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
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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