



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM F562 R30035

Standard Specification for Cobalt-35 Nickel-20 Chromium-10 Molybdenum Alloy for Surgical Implant Applications

Group - Non-Ferrous Cobalt Alloys

Sub Group - ASTM F562 R30035 Cobalt-35 Nickel-20 Chromium-10 Molybdenum Alloy for Surgical Implant Applications

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.025 max.	As-Cast or Annealing	
Chromium	Cr %	19.000 - 21.000		
Molybdenum	Mo %	9.000 - 10.500		
Nickel	Ni %	33.000 - 37.000		
Iron	Fe %	1.000 max.		
Silicon	Si %	0.150 max.		
Manganese	Mn %	0.150 max.		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.010 max.		
Titanium	Ti %	1.000 max.		
Boron	B %	0.015 max.	Mechanical Properties	
Cobalt	Co %	Balance	Tensile Strength in Mpa	793 - 2482
-	-	-	Yield Strength in Mpa	241 - 586
-	-	-	Elongation in %	1.800 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
F 2527 R30035	ASTM	USA	Casting
R30035	UNS	USA	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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