



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM F688 R30035

Standard Specification for Cobalt-35Nickel-20Chromium-10Molybdenum Alloy Plate, Sheet and Foil for Surgical Implants

Group - Non-Ferrous Cobalt Alloys

Sub Group - ASTM F688 R30035 Cobalt-35Nickel-20Chromium-10Molybdenum Alloy Plate, Sheet and Foil for Surgical Implants

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

Grade Belongs to the Industry - Plate and Sheet

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	792 min.
-	-	-	Yield Strength in Mpa	310 min.
-	-	-	Elongation in %	3 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRB	43 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
MP35N	Gravity	India	Plate and Sheet
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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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