



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - ASTM F961 R30035

**Standard Specification for 35Cobalt-35Nickel-20Chromium-10Molybdenum Alloy Forgings for Surgical Implants**

**Group - Non-Ferrous Cobalt Alloys**

**Sub Group - ASTM F961 R30035 35Cobalt-35Nickel-20Chromium-10Molybdenum Alloy Forgings for Surgical Implants**

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

**Grade Belongs to the Industry - Forging**

Chemical Composition			Heat Treatment	
Carbon	C %	0.025 max.	As-Cast or Annealing	
Silicon	Si %	0.150 max.		
Manganese	Mn %	0.150 max.		
Chromium	Cr %	19.000 - 21.000		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	9.000 - 10.500		
Iron	Fe %	1.000 max.		
Titanium	Ti %	1.000 max.	Mechanical Properties	
Nickel	Ni %	33.000 - 37.000	Tensile Strength in Mpa	793 - 2482
Cobalt	Co %	Balance	Yield Strength in Mpa	241 - 586
-	-	-	Elongation in %	1.80 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
MP35N	Gravity	India	Plate and Sheet
IS 5347-7	IS	India	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](mailto: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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