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.	

Chemical Composition			Mechanical Properties	
Titanium	Ti %	1.000 max.		
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

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