



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

## Material - IS 5347-7

### Standard Specification for Cobalt-Nickel-Chromium-Molybdenum Alloy Casting

Group - Non-Ferrous Cobalt Alloys

Sub Group - IS 5347-7 Cobalt-Nickel-Chromium-Molybdenum Alloy Casting

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	
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.		
Nickel	Ni %	33.000 - 37.000		
Cobalt	Co %	Balance	<b>Mechanical Properties</b>	
-	-	-	Tensile Strength in Mpa	800 min.
-	-	-	Yield Strength in Mpa	300 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
MP35N	Gravity	India	Plate and Sheet
F961 R30035	ASTM	USA	Forging
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**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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