

# 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		
Carbon	C %	0.025 max.
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing

Mechanical Properties	
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
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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