

# Material: IS 5347-8

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

**Group:** Non-Ferrous Cobalt Alloys

**Sub Group:** IS 5347-8 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 %	0.150 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 - 2.250
Chromium	Cr %	18.500 - 21.500
Phosphorus	P %	0.015 max.
Sulphur	S %	0.015 max.
Molybdenum	Mo %	6.500 - 8.000
Beryllium	Be %	0.001 max.
Nickel	Ni %	14.000 - 18.000
Cobalt	Co %	39.000 - 42.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing

Mechanical Properties	
Tensile Strength in Mpa	950 min.
Yield Strength in Mpa	450 min.
Elongation in %	1 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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