

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			Heat Treatment	
Carbon	C %	0.150 max.	As-Cast or Annealing	
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	Mechanical Properties	
Cobalt	Co %	39.000 - 42.000	Tensile Strength in Mpa	950 min.
Iron	Fe %	Balance	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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