

# Material: UNS N08004

## Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel Corrosion Resistant, for General Application

**Group:** Non-Ferrous Cobalt Alloys

**Sub Group:** UNS N08004 Castings, Iron-Chromium, Iron-Chromium-Nickel Corrosion Resistant, for General Application

**Application:** Intended for Valve, Pump, General Engineering, Automotive, Medical and other Industries

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.350 - 0.750
Silicon	Si %	2.500 max.
Manganese	Mn %	2.000 max.
Chromium	Cr %	17.000 - 21.000
Molybdenum	Mo %	0.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Nickel	Ni %	37.000 - 41.000
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	450 min.
Yield Strength in Mpa	-
Elongation in %	4 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
13505 Grade 14	IS	India	Casting
A 297 Grade HU	ASTM	USA	Casting
J95405	UNS	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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