

## 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			Heat Treatment	
Carbon	C %	0.350 - 0.750	As-Cast or Annealing or Age Hardning	
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		
-	-	-	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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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)