



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## Material - UNS J95405

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

**Group - Non-Ferrous Cobalt Alloys**

**Sub Group - UNS J95405 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		
Iron	Fe %	Balance	<b>Mechanical Properties</b>	
-	-	-	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
N08004	UNS	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

**ONE STOP SOLUTION FOR METAL PARTS**