



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - UNS N04405

Standard Specification for Nickel - Copper Alloy, Corrosion-Resistant, Bars and Forgings

Group - Non-Ferrous Nickel Alloys

Sub Group - UNS N04405 Nickel - Copper Alloy, Corrosion-Resistant, Bars and Forgings

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Bar and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.300 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	2.000 max.		
Sulphur	S %	0.025 - 0.060		
Iron	Fe %	2.500 max.		
Nickel	Ni %	63.000 - 70.000		
Copper	Cu %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	483 - 966
-	-	-	Yield Strength in Mpa	172 - 897
-	-	-	Elongation in %	4 - 50
-	-	-	Reduction of Area in %	50 - 70
-	-	-	Hardness in HRC	60 - 100
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Monel R405	SAE	USA	Bar and Forging
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email 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