



Material - SAE Monel R405

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

Group - Non-Ferrous Nickel Alloys

Sub Group - SAE Monel R405 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.		
Copper	Cu %	28.000- 34.000		
Nickel	Ni %	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
N04405	UNS	USA	Bar and Forging
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-	-	-	-
-	-	-	-
-	-	-	-
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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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