



Material - Gravity Monel Alloy R-405

Standard Specification for Nickel-Copper Alloy Rod, Bar and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - Gravity Monel Alloy R-405 Nickel-Copper Alloy Rod, Bar and Wire

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

Grade Belongs to the Industry - Rod, Bar and Wire

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.		
Copper	Cu %	28.000 - 34.000		
Sulphur	S %	0.025 - 0.060		
Iron	Fe %	2.500 max.		
Ni + Co	Ni% + Co%	63.000 min.		
-	-	-	Mechanical Properties Tensile Strength in Mpa 482.6 - 792.9 Yield Strength in Mpa 172.4 - 723.9 Elongation in % 15 - 50 Reduction of Area in % - Hardness in HRC 23 - 86 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N04405	UNS	USA	Bar and Forging
B 164 N04405	ASTM	USA	Rod, Bar and Wire
SB-164 N04405	ASME	USA	Rod, Bar and Wire
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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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