

Material: ASME SB-164 N04405

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

Group: Non-Ferrous Nickel Alloys

Sub Group: ASME SB-164 N04405 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.		
Aluminium	Al %	0.500 min.		
Lead	Pb %	0.006 max.		
Antimony	Sb %	0.006 max.		
Zinc	Zn %	0.020 max.		
Nickel	Ni %	63.000 min.	Mechanical Properties Tensile Strength in Mpa 480 - 758 Yield Strength in Mpa 170 min. Elongation in % 8 min. Reduction of Area in % - Hardness in BHN - 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
Monel Alloy R-405	Gravity	India	Rod, Bar and Wire
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