

# Material: ASTM B 164 N04405

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

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM B 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		
Carbon	C %	0.300 max.
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.
Nickel	Ni %	63.000 min.
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N04405	UNS	USA	Bar and Forging
SB-164 N04405	ASME	USA	Rod, Bar and Wire
Monel Alloy R-405	Gravity	India	Rod, Bar and Wire
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-	-	-	-
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