

# 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		
Carbon	C %	0.300 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardening

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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