

Material: SAE Monel K500

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

Group: Non-Ferrous Nickel Alloys

Sub Group: SAE Monel K500 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 %	0.250 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Copper	Cu %	27.000- 33.000		
Iron	Fe %	2.000 max.		
Sulphur	S %	0.010 max.		
Aluminium	Al %	2.000 - 4.000		
Phosphorus	P %	0.020 max.		
Lead	Pb %	0.006 max.		
Tin	Sn %	0.006 max.		
			Mechanical Properties	
Zinc	Zn %	0.020 max.	Tensile Strength in Mpa	620 - 1380
Nickel	Ni %	Balance	Yield Strength in Mpa	276 - 1207
-	-	-	Elongation in %	2 - 45
-	-	-	Reduction of Area in %	25 - 75
-	-	-	Hardness in HRC	75 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N05500	UNS	USA	Bar and Forging
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