



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

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.		
Zinc	Zn %	0.020 max.	Mechanical Properties Tensile Strength in Mpa 620 - 1380 Yield Strength in Mpa 276 - 1207 Elongation in % 2 - 45 Reduction of Area in % 25 - 75 Hardness in HRC 75 min. Impact in Joule -	
Nickel	Ni %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS