



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM B 865 N05500

Standard Specification for Precipitation Hardening Nickel-Copper-Aluminum Alloy Bar, Rod, Wire, Forging and Forging Stock

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 865 N05500 Precipitation Hardening Nickel-Copper-Aluminum Alloy Bar, Rod, Wire, Forging and Forging Stock

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Bar, Rod, Wire and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.180 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.500 max.		
Copper	Cu %	27.000 - 33.000		
Sulphur	S %	0.010 max.		
Aluminium	Al %	2.300 - 3.150		
Titanium	Ti %	0.350 - 0.850		
Iron	Fe %	2.000 max.		
Nickel	Ni %	63.000 min.		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	760 - 1070
			Yield Strength in Mpa	585 min.
			Elongation in %	15 min.
			Reduction of Area in %	-
			Hardness in BHN	185 min.
			Impact in Joule	-

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

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