

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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