

Material: ASTM B 805 N07776

Standard Specification for Precipitation Hardening Nickel Alloys Bar and Wire

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 805 N07776 Precipitation Hardening Nickel Alloys Bar and Wire

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

Grade Belongs to the Industry: Bar and Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	12.000 - 22.000		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	9.000 - 15.000		
Phosphorus	P %	0.030 max.		
Niobium	Nb %	4.000 - 6.000		
Titanium	Ti %	1.000 max.		
Aluminium	Al %	2.000 max.		
			Mechanical Properties	
Tungsten	W %	0.500 - 2.500	Tensile Strength in Mpa	621 min.
Nickel	Ni %	50.000 - 60.000	Yield Strength in Mpa	241 min.
Iron	Fe %	Balance	Elongation in %	20 min.
-	-	-	Reduction of Area in %	30 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N07776	UNS	USA	Bar and Wire
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com