



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.		
Tungsten	W %	0.500 - 2.500	Mechanical Properties	
Nickel	Ni %	50.000 - 60.000	Tensile Strength in Mpa	621 min.
Iron	Fe %	Balance	Yield Strength in Mpa	241 min.
-	-	-	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
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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.