



Material - UNS N07776

Standard Specification for Precipitation Hardening Nickel Alloys Bar and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - UNS 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
B 805 N07776	ASTM	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

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