



Material - UNS N09777

Standard Specification for Precipitation Hardening Nickel Alloys Bar and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - UNS N09777 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 %	14.000 - 19.000		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	2.500 - 5.500		
Phosphorus	P %	0.030 max.		
Niobium	Nb %	0.100 max.		
Titanium	Ti %	2.000 - 3.000		
Aluminium	Al %	0.350 max.		
Nickel	Ni %	34.000 - 42.000	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	517 min.
-	-	-	Yield Strength in Mpa	207 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 805 N09777	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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