Material: ASTM B 805 N09777

Standard Specification for Precipitation Hardening Nickel Alloys Bar and Wire

Group: *Non-Ferrous Nickel Alloys*
Sub Group: *ASTM B 805 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		
Carbon	C %	0.030 max.
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
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
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**
UNS N09777	UNS	USA	Bar and Wire
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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