Material: UNS N07716

Standard Specification for Precipitation Hardening Nickel Alloys Bar and Wire

Group: *Non-Ferrous Nickel Alloys*

Sub Group: *UNS N07716 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 Hardening	
Silicon	Si %	0.200 max.		
Manganese	Mn %	0.200 max.		
Chromium	Cr %	19.000 - 22.000		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	7.000 - 9.500		
Phosphorus	P %	0.015 max.		
Niobium	Nb %	2.750 - 4.000		
Titanium	Ti %	1.000 - 1.600	**Mechanical Properties**	
Aluminium	Al %	0.350 max.	Tensile Strength in Mpa	758 min.
Nickel	Ni %	57.000 - 63.000	Yield Strength in Mpa	310 min.
Iron	Fe %	Balance	Elongation in %	20 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 N07716	ASTM	USA	Bar and Wire
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