

Material: ASTM B 805 N07716

Standard Specification for Precipitation Hardening Nickel Alloys Bar and Wire

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 805 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	Mechanical Properties Tensile Strength in Mpa 758 min. Yield Strength in Mpa 310 min. Elongation in % 20 min. Reduction of Area in % 35 min. Hardness in BHN - Impact in Joule -	
Titanium	Ti %	1.000 - 1.600		
Aluminium	Al %	0.350 max.		
Nickel	Ni %	59.000 - 63.000		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N07716	UNS	USA	Bar and Wire
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