



## 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 Hardning	
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		
Aluminium	Al %	0.350 max.		
Nickel	Ni %	57.000 - 63.000	Mechanical Properties	
Iron	Fe %	Balance	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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 805 N07716	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](mailto:marketing@gravitycastindia.com)**

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