

Material: ASTM B 805 N07725

Standard Specification for Precipitation Hardening Nickel Alloys Bar and Wire

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 805 N07725 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 %	0.350 max.		
Chromium	Cr %	19.000 - 22.500		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	7.000 - 9.500		
Phosphorus	P %	0.015 max.		
Niobium	Nb %	2.750 - 4.000	Mechanical Properties	
Titanium	Ti %	1.000 - 1.700		
Aluminium	Al %	0.350 max.		
Nickel	Ni %	55.000 - 59.000		
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 872 N07725	ASTM	USA	Plate, Sheet and Strip
B 983 N07725 Type 1	ASTM	USA	Pipe and Tube
B 983 N07725 Type 2	ASTM	USA	Pipe and Tube
B1007 N07725 Type 1	ASTM	USA	Tube
B1007 N07725 Type 2	ASTM	USA	Tube
B1007 N07725 Type 3	ASTM	USA	Tube
N07725	UNS	USA	Pipe and Tube

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