

## Material: ASTM B 983 N07725 Type 1

### Standard Specification for Precipitation Hardened or Cold Worked, Seamless Nickel Alloy Pipe and Tube

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM B 983 N07725 Type 1 Precipitation Hardened or Cold Worked, Seamless Nickel Alloy Pipe and Tube

**Application :** Intended for Valve, Pump, General Engineering, Automotive and other Industries Grade Belongs to

**the Industry:** Pipe and Tube

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		
Titanium	Ti %	1.000 - 1.700	Mechanical Properties	
Aluminium	Al %	0.350 max.	Tensile Strength in Mpa	1035 min.
Nickel	Ni %	55.000 - 59.000	Yield Strength in Mpa	827 min.
Iron	Fe %	Balance	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	43 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 805 N07725	ASTM	USA	Bar and Wire
B 872 N07725	ASTM	USA	Plate, Sheet and Strip
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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