

Material: ASTM B983 N07718

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

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B983 N07718 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 %	0.080 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.350 max.		
Manganese	Mn %	0.350 max.		
Chromium	Cr %	17.000 - 21.000		
Molybdenum	Mo %	2.800 - 3.300		
Aluminium	Al %	0.200 - 0.800		
Niobium	Nb %	4.750 - 5.500		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.015 max.		
Boron	B %	0.006 max.		
Cobalt	Co %	1.000 max.	Mechanical Properties	
Titanium	Ti %	0.650 - 1.150	Tensile Strength in Mpa	1034 min.
Nickel	Ni %	50.000 - 55.000	Yield Strength in Mpa	862 min.
Copper	Cu %	0.300 max.	Elongation in %	20 min.
Iron	Fe %	Balance	Reduction of Area in %	-
			Hardness in HRC	40 min.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Inconel 718	SAE	USA	Tube
N07718	UNS	USA	Tube
WL 2.4668	DIN	Germany	Bars and Wire for Screws and Bolts
B670 N07718	ASTM	USA	Plate, Sheet and Strip
B834 N07718	ASTM	USA	Pipe Flange, Fitting and Valve
B637 N07718	ASTM	USA	Bar and Forging
SB-637 N07718	ASME	USA	Bar and Forging

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