Material: UNS N07718

Standard Specification for Nickel Alloy, Corrosion and Heat-Resistant, Seamless Tubing

Group: *Non-Ferrous Nickel Alloys*
Sub Group: *UNS N07718 Nickel Alloy, Corrosion and Heat-Resistant, Seamless Tubing*
Application: *Intended for Valve, Pump, General Engineering, Automotive and other Industries*
Grade Belongs to the Industry: *Tube*

Chemical Composition		
Carbon	C %	0.080 max.
Silicon	Si %	0.350 max.
Manganese	Mn %	0.350 max.
Chromium	Cr %	17.000 - 21.000
Molybdenum	Mo %	2.800 - 3.300
Titanium	Ti %	0.650 - 1.150
Aluminium	Al %	0.400 - 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.
Al + Ti	Al % + Ti %	1.750 max.
Nickel	Ni %	50.000 - 55.000
Iron	Fe %	Balance

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	1365 min.
Yield Strength in Mpa	1125 min.
Elongation in %	21 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
Inconel 718	SAE	USA	Tube
B983 N07718	ASTM	USA	Pipe and 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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