



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			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		
Titanium	Ti %	0.650 - 1.150		
Aluminium	Al %	0.400 - 0.800		
Niobium	Nb %	4.750 - 5.500		
Phosphorus	P %	0.015 max.	Mechanical Properties	
Sulphur	S %	0.015 max.	Tensile Strength in Mpa	1365 min.
Boron	B %	0.006 max.	Yield Strength in Mpa	1125 min.
Cobalt	Co %	1.000 max.	Elongation in %	21 min.
Al + Ti	Al % + Ti %	1.750 max.	Reduction of Area in %	-
Nickel	Ni %	50.000 - 55.000	Hardness in BHN	-
Iron	Fe %	Balance	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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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