

Material: ASTM B670 N07718

Standard Specification for Nickel Alloy Plate, Sheet and Strip for High-Temperature Service

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTS B670 N07718 Nickel Alloy Plate, Sheet and Strip for High-Temperature Service

Application: Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry: Plate, Sheet and Strip

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		
Nb + Ta	Nb% + Ta%	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	1241 min.
Nickel	Ni %	50.000 - 55.000	Yield Strength in Mpa	1034 min.
Copper	Cu %	0.300 max.	Elongation in %	10 min.
Iron	Fe %	Balance	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
N07718	UNS	USA	Tube
WL 2.4668	DIN	Germany	Bars and Wire for Screws and Bolts
B983 N07718	ASTM	USA	Pipe and Tube
B637 N07718	ASTM	USA	Bar and Forging
SB-637 N07718	ASME	USA	Bar and Forging
SB-834 N07718	ASME	USA	Pipe Flange, Fitting and Valve

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