Material: ASME SB-637 N07718

Standard Specification for Nickel Alloy Bars, Forgings, and Forging Stock for High-Temperature Service

Group: *Non-Ferrous Nickel Alloys*
Sub Group: *ASME SB-637 N07718 Nickel Alloy Bars, Forgings, and Forging Stock for High-Temperature Service*
Application: *Intended for Valve, Pump, General Engineering, Automotive and other Industries*
Grade Belongs to the Industry: *Bar and Forging*

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
Aluminium	Al %	0.200 - 0.800
Nb + Ta	Nb% + Ta%	4.750 - 5.500
Phosphorus	P %	0.015 max.
Sulphur	S %	0.015 max.
Cobalt	Co %	1.000 max.
Titanium	Ti %	0.650 - 1.150
Nickel	Ni %	50.000 - 55.000
Copper	Cu %	0.300 max.
Boron	B %	0.006 max.
Iron	Fe %	Balance

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	1275 min.
Yield Strength in Mpa	1034 min.
Elongation in %	12 min.
Reduction of Area in %	15 min.
Hardness in HRC	36 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
B983 N07718	ASTM	USA	Pipe and Tube
B637 N07718	ASTM	USA	Bar and Forging
B670 N07718	ASTM	USA	Plate, Sheet and Strip
SB-834 N07718	ASME	USA	Pipe Flange, Fitting and Valve

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