

# Material: ASME SB-834 N07718

## Standard Specification for Nickel Alloy Pipe Flanges, Fittings, Valves, And Parts Intended for General Corrosion or Heat Resisting Service

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASME SB-834 N07718 Nickel Alloy Pipe Flanges, Fittings, Valves, And Parts Intended for General Corrosion or Heat Resisting Service

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

**Grade Belongs to the Industry:** Pipe Flange, Fitting and Valve

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.
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 %	-
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
B834 N07718	ASTM	USA	Pipe Flange, Fitting and Valve

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