

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			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.	Mechanical Properties		
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			
-	-	-			
					Tensile Strength in Mpa
			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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