

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.		
Silicon	Si %	0.350 max.		
Manganese	Mn %	0.350 max.		
Chromium	Cr %	17.000 - 21.000	As-Cast or Annealing or Age Hardning	
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.	Tensile Strength in Mpa	1275 min.
Titanium	Ti %	0.650 - 1.150	Yield Strength in Mpa	1034 min.
Nickel	Ni %	50.000 - 55.000	Elongation in %	12 min.
Copper	Cu %	0.300 max.	Reduction of Area in %	-
Iron	Fe %	Balance	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	-

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		

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.