

Material: DIN WL 2.4668

Standard Specification for Aerospace; Heat-Resisting Nickel Alloy Bars and Wire for Screws and Bolts

Group: Non-Ferrous Nickel Alloys

Sub Group: DIN WL 2.4668 Aerospace; Heat-Resisting Nickel Alloy Bars and Wire for Screws and Bolts

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

Grade Belongs to the Industry: Bars and Wire for Screws and Bolts

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 - 0.080	As-Cast or Annealing or Age Hardening	
Silicon	Si %	0.350 max.		
Manganese	Mn %	0.350 max.		
Chromium	Cr %	17.000 - 21.000		
Molybdenum	Mo %	2.800 - 3.300		
Aluminium	Al %	0.300 - 0.700		
Niobium	Nb %	4.800 - 5.500		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.015 max.		
Boron	B %	0.002 - 0.006		
Cobalt	Co %	1.000 max.	Mechanical Properties	
Titanium	Ti %	0.700 - 1.150	Tensile Strength in Mpa	960 min.
Nickel	Ni %	50.000 - 55.000	Yield Strength in Mpa	550 min.
Lead	Pb %	0.002 max.	Elongation in %	5 min.
Silver	Ag %	0.0005 max.	Reduction of Area in %	8 min.
			Hardness in BHN	277 min.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Inconel 718	SAE	USA	Tube
N07718	UNS	USA	Tube
B670 N07718	ASTM	USA	Plate, Sheet and Strip
B983 N07718	ASTM	USA	Pipe and Tube
B834 N07718	ASTM	USA	Pipe Flange, Fitting and Valve
B637 N07718	ASTM	USA	Bar and Forging
SB-637 N07718	ASME	USA	Bar and Forging

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