

INCONEL ALLOY 718

NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

INCONEL ALLOY 718 is A precipitation-hard enable nickel-chromium alloy also containing significant amounts of iron, niobium, and molybdenum along with lesser amounts of aluminum and titanium. It combines corrosion resistance and high strength with outstanding weld ability including resistance to post weld cracking. The alloy has excellent creep-rupture strength at temperatures to 1300°F (700°C). Used in gas turbines, rocket motors, spacecraft, nuclear reactors, pumps, and tooling. INCONEL alloy 718SPF™ is a special version of INCONEL alloy 718, designed for superplastic forming

Chemical Properties

C	Mn	P	S	Si	Cr	Mo
0.08 Max	0.35 Max	0.020 Max	0.020 Max	0.35 Max	17.0-21.0	2.80-3.30

Ni	Cu	Ti	Al	B	Co	Cb+Ta
50.0-55.0	0.30 Max	0.65-1.15	0.20-0.80	0.006 Max	1.00 Max	4.75-5.50

Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction	Hardness
Min 0.2% Mpa	Min Mpa	Min %	% Min	BHN Min
1034	1275	12	15	331

177°C & Rapidly Liquid Quenched

Heat Treatment

Solution Treated @1010° and Precipitation hardening @14° C

Equivalent Designation

UNS N07718
En Name NiCr19FeNbMo
W.Nr. 2.4668
AFNOR NC19FeNb

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