Inconel 718 Pipe & Tube (UNS N07718/ WNR 2.4668)

Nickel Alloy 718 N07718/ 2.4668 is an precipitation hardenable nickel-chromium nickel alloy with high strength and Corrosion Resistant.

Inconel 718 Characteristics

1. Workability
2. High tensile strength, endurance strength, creep strength and rupture strength at 700°C.
3. High inoxidability at 1000°C.
4. Steady mechanical performance in the low temperature.
5. Good welding performance.

Inconel 718 Corrosion resistance

Nickel Alloy 718 with extremely resistance to stress corrosion cracking and pitting ability in high temperature or low temperature environments, especially the inoxidability in the high temperature.

Inconel 718 Application:

The elevated temperature strength, excellent corrosion resistance and workability at 700°C propertie made it use in a wide range of high requirement environments.

1. Steam turbine
2. Liquid-fuel rocket
3. Cryogenic engineering
4. Acid environment
5. Nuclearengineering

Inconel 718 Chemical Composition

Alloy	%	Ni	Cr	Fe	Mo	Nb	Co	C	Mn	Si	S	Cu	Al	Ti
718	Min.	50	17	Balance	2.8	4.75							0.2	0.7
–	Max.	55	21	–	3.3	5.5	1	0.08	0.35	0.35	0.01	0.3	0.8	1.15

Inconel 718 Physical Properties

Density / Specific Gravity	8193 kg/m³
Melting point	1321-1393 °C

Inconel 718 Mechanical Properties in the Room Temperature

Alloy	Tensile strength Rm N/mm²	Yield strength R P0. 2N/mm²	Elongation A 5 %	Brinell hardness HB
Solution treatment	965	550	30	≤363

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