

Inconel 718 has excellent corrosion resistance at high and low temperatures and good resistance to stress-corrosion cracking and pitting corrosion. Alloy 718 has good performance in hostile environments containing H₂S, CO₂, chlorides, sulfides and free sulfur at selected temperatures. Alloy 718 is commonly used for cryogenic storage tanks, downhole shafts and wellhead parts.

Inconel 718 Specifications

Grade	UNS	W.Nr
Alloy 718	N07718	2.4668

Inconel 718 Chemical composition

Grade	%	Ni	Cr	Fe	Mo	Nb	C	Mn	Si	S	Cu	Al	Ti	B
Alloy 718	Min	50	17	Bal.	2.8	4.75						0.20	0.65	
	Max	55	21		3.3	5.50	0.08	0.35	0.35	0.015	0.30	0.80	1.15	0.006

Inconel 718 Mechanical properties: (Minimum value at 20°C)

Tensile Strength σ_b /MPa	Yield Strength $\sigma_{p0.2}$ /MPa	Elongation σ_5 /%
≥ 965	≥ 550	≥ 30

Inconel 718 Standard

Bar/Rod	Forging	Sheet/Strip	Wire	Pipe/Tube
ASTM B637	ASTM B637	ASTM B670	AMS 5832	ASTM B983

Inconel 718 Size Range

- Wire: Dia 0.08-12mm
- Bar: Dia 1.0-300mm
- Strip(Coil): 0.2-20mm TCK x 10-300mm W
- Sheet: min.0.7mm TCK x 1200mm W max.
- Tube & Forging & Machine Parts: customized
- Welding wire: 0.8mm,1.0mm,1.2mm,2.0mm,2.4mm,3.2mm,3.8mm,4.0mm etc
- Welding Strip: 0.4-0.7mm TCK x 25-60mm W