

Inconel 601 has good high temperature strength, and retains its ductility after long service exposure, and good hot corrosion resistance under oxidizing conditions. Alloy 601 is used for industrial furnaces; heat-treating equipment such as baskets, muffles, and retorts; petrochemical and other process equipment; and gas-turbine components.

Inconel 601 Specifications

Grade	UNS	W.Nr
Alloy 601	N06601	2.4851

Inconel 601 Chemical composition

Grade	%	Ni	Cr	Fe	C	Mn	Si	Cu	Al	P	S
Alloy 601	Min	58	21	Bal.					1.0		
	Max	63	25		0.1	1.5	0.5	1	1.7	0.02	0.015

Inconel 601 Mechanical properties: (Minimum value at 20°C)

Tensile Strength σ_b /MPa	Yield Strength $\sigma_{p0.2}$ /MPa	Elongation σ_5 /%
≥ 600	≥ 240	≥ 30

Inconel 601 Standards

Bar/Rod	Forging	Sheet/Strip	Wire	Pipe/Tube
ASTM B166	ASTM B166	ASTM B168	ASTM B166	ASTM B167 ASTM B163 ASTM B516

Inconel 601 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