

Incoloy 800 resists sulfur attack, internal oxidation, scaling and corrosion in a multitude of environments. Alloy 800 is used in a variety of applications involving exposure to corrosive environments and high temperatures. It is used for heat-treating equipment such as baskets, trays, fixtures, and used for heat exchangers and other piping systems in nitric acid media.

Incoloy 800 Specifications

Grade	UNS	W.Nr
Alloy 800	N08800	1.4876

Incoloy 800 Chemical composition

Grade	%	Ni	Cr	Fe	C	Mn	Si	Cu	S	Al	Ti	P
Alloy 800	Min	30	19	Bal.						0.15	0.15	
	Max	35	23		0.10	1.5	1	0.75	0.015	0.60	0.60	0.03

Incoloy 800 Mechanical properties: (Minimum value at 20°C)

Tensile Strength σ_b /MPa	Yield Strength $\sigma_{p0.2}$ /MPa	Elongation σ_5 /%
≥ 520	≥ 205	≥ 30

Incoloy 800 Standards

Bar/Rod	Forging	Sheet/Strip	Wire	Pipe/Tube
ASTM B408	ASTM B564	ASTM B409	ASTM B408	ASTM B407 ASTM B163 ASTM B514 ASTM B515

Incoloy 800 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