

Incoloy 800HT has superior corrosion resistance in oxidizing corrosive environments such as nitric acid and nitric acid-sulfuric acid. They perform similarly well in sodium salt and other molten salt environments, and provide stress corrosion crack sensitivity surpassing standard austenitic stainless steels. Alloy 800HT are widely used in chemical plants, heat treatment furnaces and other high-temperature environments.

Incoloy 800HT Specification

Grade	UNS	W.Nr
Alloy 800HT	N08811	1.4959

Incoloy 800HT Chemical composition

Grade	%	Ni	Cr	Fe	C	Mn	Si	Cu	S	Al	Ti
Alloy 800HT	Min	30	19	Bal.	0.05					0.15	0.15
	Max	35	23		0.10	1.5	1	0.75	0.015	0.60	0.60

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

Tensile Strength σ_b /MPa	Yield Strength $\sigma_{p0.2}$ /MPa	Elongation σ_5 /%
≥ 500	≥ 210	≥ 35

Incoloy 800HT Standard

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

Incoloy 800HT 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