



Incoloy 800/800H/800HT

Henan Sheng He Pipe Industry Co., Ltd., have an experience spanning for over ten years, producing and supplying best-in-class products, minimize cost by getting manufacturing processes under one roof and delivering consignments on a daily basis only because of a diligent and dedicated team. We are manufacturers, suppliers and exporters of Incoloy 800/800H/800HT material.

Common Trade Names: Incoloy 800, Ferrochronin 800, Nickelvac 800, Nicrofer 3220

Incoloy 800/800H/800HT is nickel-iron-chromium alloy. The alloys' higher creep-rupture strength is the result of aluminum, carbon, and titanium contents. In addition, Incoloy 800/800H/800HT has good corrosion resistance in acidic environments while being resistant to oxidation and carburization in high temperature environments.

Incoloy 800/800H/800HT Available Formats

Sheng He Pipe Industry offers Incoloy 800/800H/800HT in a variety of forms, including:

- Bar
- Wire
- Sheet
- Plate
- forgings
- Pipe fittings
- Flanges
- Seamless & Welded pipe
- Seamless Tube & Welded tube
- Weld Rod

Incoloy 800/800H/800HT sheet is available in thicknesses ranging from .020 to .156". Incoloy 800HT strip in coil from is available in lighter gauges up 12"



wide. Incoloy 800HT plate is available up 2" thick.

Incoloy 800/800H/800HT bar is available in wrought bar up to 8" diameter and larger sizes and shapes may be forged to order.

Incoloy 800/800H/800HT seamless pipe is available up to 8" NB. Larger sizes are available in welded construction (100% X-ray) and can also be fabricated to order. Incoloy 800/800H/800HT tubing is available up 3" OD. Incoloy 800/800H/800HT redrawn tubes and tubing with tight tolerances can be supplied in almost any size no matter how small the size or quantity.

Butt-weld and forged fittings are available or can be manufactured with short lead times..

Available forms of Incoloy 800/800H/800HT are seamless pipe, welded pipe, seamless tube, welded tube, bar, wire, sheet, plate, forgings, pipe fittings and flanges.

ASTM Specifications

ASTM (American Society for Testing and Materials) for various products made out of Incoloy 800/800H/800HT are as follow

Alloy	Pipe Seam less	Pipe Welde d	Tube Seamless	Tube Welded	Sheet/ Plate	Bar	Forgi ng	Fittin g	Wi re
Alloy 800 (UNS N08800)	B407	B154	B163	B515	B409	B408	B564	B366	—
Alloy 800H (UNS N08810)	B407	B154	B163	B515	B409	B408	B564	B366	—
Alloy 800H	B407	B154	B163	B515	B409	B408	B564	B366	—



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Alloy 800 (UNS N08800) Chemical Composition, %

Ni	Cr	Fe	C	Al	Ti	Al+Ti
30.0-35.0	19.0-23.0	39.5 min	.10 max	.15-.60	.15-.60	.30-1.20

Alloy 800H (UNS N08810) Chemical Composition, %

Ni	Cr	Fe	C	Al	Ti	Al+Ti
30.0-35.0	19.0-23.0	39.5 min	.05-.10	.15-.60	.15-.60	.30-1.20

Alloy 800HT (UNS N08811) Chemical Composition, %

Ni	Cr	Fe	C	Al	Ti	Al+Ti
30.0-35.0	19.0-23.0	39.5 min	.06-.10	.25-.60	.25-.60	0.85-1.2

*Note that the chemical composition of Incoloy 800HT will always be within the limits of Incoloy 800H.

*Note the limits of Incoloy 800H may or may not be within the limits of Incoloy 800HT.

Mechanical Properties - Typical room temperature Tensile Properties of Annealed Material

Product	Tensile (ksi)	.2% Yield (ksi)	Elongation (%)
Rod & Bar	75-100	30-60	60-30