



Alloy 800H

1. Brief introduction:

Alloy 800H and alloy 800HT are Ni-Fe-Cr alloys that have the same basic composition as alloy 800 but with significantly higher creep-rupture strength, normally used above approximately 1100°F (593°C) where resistance to creep and stress rupture is required.

Alloy 800H is used in chemical and petrochemical processing, power plants for super-heater and reheater tubing, industrial furnaces and heat-treating equipment.

2. Main specifications:

Chinese	UNS	Werkstoff Nr.
NS112	N08810	1.4958
800HT	N08811	1.4959

3. Chemical composition under ASTM B408-2016 standard:

Grade	chemical composition, %										
	Ni	Cr	Fe	Mn	C	Cu	Si	S	Al	Ti	Al+Ti
alloy No8810	30.0-35.0	19.0-23.0	≥39.5	≤1.5	0.05-0.1	≤0.75	≤1.0	≤0.015	0.15-0.6	0.15-0.6	/
alloy No8811	30.0-35.0	19.0-23.0	≥39.5	≤1.5	0.06-0.1	≤0.75	≤1.0	≤0.015	0.15-0.6	0.15-0.6	0.85-1.2

4. Fe element shall be determined arithmetically by difference.

wire, rod, forging, bar, strip, sheet/plate, tube/pipe.



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5. Main produce standards:

Wire,Rod, Bar	Forging	Plate/Sheet/Strip	Seamless Tube/Pipe
ASTM B408 ASME SB408	ASTM B564 ASME SB564	ASTM B409 ASME SB409 AMS5871	ASTM B163 ASME SB163 ASTM B407 ASME SB407

6. Alloy 800H source URL:

<https://www.hitealloy.com/product/alloy-800h-ns112.html>