

ASME SB-409 Incoloy 800H Coil, Sheet & Plate

Specifications

Grade	UNS	Standards	
Incoloy 800H	UNS N08800	ASME SB-409	AMS 5871

Incoloy 800H is an austenitic heat resistant alloy designed for high temperature structural applications. The strength of Incoloy 800H is achieved by controlled levels of carbon, aluminum and titanium along with a 2100°F minimum anneal to achieve a grain size of ASTM 5 or coarser.

Incoloy 800H is commonly welded using RA82 (ERNiCr-3) bare wire for applications under 1450°F. RA330-04 (N08334) bare wire offers a closer match of thermal expansion coefficient, and somewhat higher strength.

Chemical Composition

Item	Incoloy 800	Incoloy 800H	Incoloy 800HT	
Chemical Composition (%)	C	≤0.1	0.05~0.1	0.06~0.1
	Mn	≤1.5	≤1.5	≤1.5
	Si	≤1.0	≤1.0	≤1.0
	S	≤0.015	≤0.015	≤0.015
	Al+Ti	0.3~1.2	0.3~1.2	0.3~1.2
	Cr	19~23	19~23	19~23

	Ni	30~35	30~35	30~35
	Fe	bal	bal	bal
	Cu	≤0.75	≤0.75	≤0.75

Types of Incoloy 800H Coils, Sheets and Plates

- Incoloy 800H coils
- Incoloy 800H sheets
- Incoloy 800H plates
- ASME SB-409 Incoloy 800H coils
- ASME SB-409 Incoloy 800H sheets
- ASME SB-409 Incoloy 800H plates
- AMS 5871 Incoloy 800H coils
- AMS 5871 Incoloy 800H sheets
- AMS 5871 Incoloy 800H plates