

Incoloy 800HT

UNS N08811

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Nickel

Iron

Chromium

www.arialloy.com/incoloy-800ht/

• Chemical Composition •

S%	Si%	C%	Mn%	Al%	Ti%
≤ 0.015	≤ 1.00	0.06 ~ 0.10	≤ 1.50	0.15 ~ 0.60	0.15 ~ 0.60
Al% + Ti%	Cu%	Fe%	Cr%	Ni%	
0.85 ~ 1.20	≤ 0.75	≥ 39.5	19.0 ~ 23.0	30.0 ~ 35.0	

• Mechanical Properties •

Product	Condition	T.S.	Y.S.	EL	RA	Hardness
		MPa, min	MPa, min	%, min	%, min	HRB, max
Seamless Pipe & Tube	Annealed	450	170	30	...	...
Welded Tube	Annealed	450	170	30	...	...
Bar & Rod	Annealed	450	170	30	...	...
Sheet, Strip & Plate	Annealed	450	170	30	...	...

• Physical Properties •

Density		Melting Range		Curie Temperature	
lb/in ³	g/cm ³	°F	°C	°F	°C
0.287	7.94	2475 ~ 2525	1357 ~ 1385	-175	-115

• Main Standards •

Rod, Bar, Wire, Forgings, & Forging Stock	Plate, Sheet & Strip	Pipe & Tube	Other Product Forms
ASTM B408/ASME SB 408 ASTM B564/ASME SB 564 SAE AMS 5766	ASTM A240/ASME SA 240 ASTM A480/ASME SA 480 ASTM B409/ASME SB 409 ASTM B906/ASME SB 906 SAE AMS 5871	ASTM B163/ASME SB 163 ASTM B407/ASME SB 407 ASTM B829/ASME SB 829 ASTM B514/ASME SB 514 ASTM B775/ASME SB 775 ASTM B515/ASME SB 515 ASTM B751/ASME SB 751	ASTM B366 ASME SB 366