

Incoloy 800

UNS N08800

W.Nr. 1.4876

Nickel

Iron

Chromium

www.arialloy.com/incoloy-800/

• Chemical Composition •

S%	Si%	C%	Mn%	Al%
≤ 0.015	≤ 1.00	≤ 0.10	≤ 1.50	0.15 ~ 0.60
Ti%	Cu%	Fe%	Cr%	Ni%
0.15 ~ 0.60	≤ 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	Cold-worked & Annealed	520	205	30	...	...
Seamless Pipe & Tube	Hot-finished	450	170	30	...	...
Welded Pipe	Annealed	520	207	30	...	...
Welded Tube	Annealed	520	205	30	...	...
Bar & Rod	Hot-worked	550	240	25	...	...
Bar & Rod	Annealed	515	205	30	...	...
Sheet, Strip & Plate	Annealed	520	205	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

The data sheet only refers to ASTM / SAE standards. If you have special requirements, please refer to the quotation.

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