ALLOY 800H/HT
UNS N08800/N08810/N08811

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DESCRIPTION

Alloy 800H and 800HT are nickel-iron-chromium alloys with good strength and excellent resistance to oxidation and carburization in high-temperature exposure. These nickel steel alloys are identical except for the higher level of carbon in Alloy 800H, and the addition of up to 1.20% aluminum and titanium in Alloy 800HT.

LIMITING CHEMICAL COMPOSITION (%)

C	CR	FE	NI	AL	TI	AL/TI
0.06-0.10	19.0-23.0	MIN 39.5	30.0-35.0	0.15-0.60	0.15-0.60	0.85-1.20

TYPICAL APPLICATIONS

- Ethylene furnace quench boilers
- Industrial furnaces
- Heat-treating equipment
- Chemical and petrochemical processing
- Super-heater and re-heaters in power plants
- Pressure vessels
- Heat exchangers

TENSILE REQUIREMENTS

TENSILE STRENGTH KSI (MIN.)	YIELD STRENGTH KSI (MIN.)
72.5	25

PRODUCT CAPABILITIES

J&J Alloys produces a wide selection of fittings, flanges, and custom components tailored to customer specifications and technical drawings. For custom inquiries or additional details, please contact your J&J Alloys sales representative.

PRODUCT	SIZE (NPS)	PRODUCT	SIZE (NPS)	PRODUCT	SIZE (NPS)
SW/THRD Couplings	1/8” - 8”	SW/THRD 90s	1/2” - 4”	BW Tees	1/2” - 10”
SW/THRD Half Couplings	1/8” - 8”	SW/THRD 90s (Block Pattern)	1/2” - 4”	BW LR/SR 90s (Block Pattern)	1/2” - 4”
THRD Plugs (Hex/Round/Square)	1/8” - 6”	SW/THRD Tees	1/2” - 4”	BW Cross (Block Pattern)	1/2” - 12”
THRD Hex Bushings	1/8” - 6”	SW/THRD Cross (Block Pattern)	1/2” - 4”	Pipe Nipples	1/4” - 8”
SW/THRD Inserts	1/8” - 4”	SW/THRD Caps	1/2” - 6”	Studding Outlets (Flat Bottom)	1/2” - 24”
BW/SW/THRD Unions	1/8” - 4”	BW Caps (Dome Shaped)	1/2” - 24”	ASME B16.5 (dims) Flanges	1/2” - 24”
Olets (TOL, SOL, WOL, EOL, LOL)	1/8” - 24”	MSS (Short) Stub Ends	1/2” - 60”	ASME B16.47 Flanges Series A&B	26” - 60”
Conc/Ecc Swages	1/2” - 8”	ASA (Long) Stub Ends	1/2” - 60”	Taper Bore BW 45s	1/2” - 30”
SW/THRD 45s	1/2” - 4”	BW Concentric Reducers	3/4” - 30”	Taper Bore BW 90s	1/2” - 30”
SW/THRD 45s (Block Pattern)	1/2” - 4”	BW Eccentric Reducers	3/4” - 24”	Taper Bore BW Tees	1/2” - 30”

NOTE: The information on this sheet have been compiled from a variety of sources, and should be considered as a general guide only. The information and data included are accurate to the best of our knowledge, and may be revised at any time without notice. J&J Alloys assumes no responsibility for the accuracy of this information.

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