ALLOY C276
UNS N10276

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DESCRIPTION

Alloy C276 is a nickel-molybdenum-chromium alloy with an addition of tungsten designed to have excellent corrosion resistance. The high nickel and molybdenum contents make the nickel steel alloy resistant to pitting and crevice corrosion in reducing environments while chromium conveys resistance to oxidizing media.

LIMITING CHEMICAL COMPOSITION (%)

NI	MO	CR	FE	W	CO	MN	C	V	P	S	SI
Re-mainder	15.0-17.0	14.5-16.5	4.0-7.0	3.0-4.5	MAX 2.5	MAX 1.0	MAX 0.01	MAX 0.35	MAX 0.04	MAX 0.03	MAX 0.08

TYPICAL APPLICATIONS

- Chemical processing components like heat exchangers, reaction vessels, evaporators, and transfer piping
- Sour gas wells
- Pulp and paper production
- Waste treatment
- Pharmaceutical and food processing equipment

TENSILE REQUIREMENTS

PRODUCT FORM	TENSILE STRENGTH (KSI)	YIELD STRENGTH (KSI)
Tube & Pipe	105.4	45.4

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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