SUPER DUPLEX 2507
UNS S32750

jjmfg.com | sales@jjmfg.com | (800) 231-4253

DESCRIPTION

Super Duplex 2507 is a nickel-molybdenum-chromium alloy designed for applications demanding outstanding strength and corrosion resistance. The nitrogen, chromium, and high molybdenum content results in excellent resistance to crevice corrosions and chloride pitting. Super Duplex 2507 is often found in offshore platforms, heat exchangers, chemical processing, seawater equipment, and in the petrochemical industry.

LIMITING CHEMICAL COMPOSITION (%)

CR	NI	MO	C	N	MN	SI	CU	P	S	FE
24.0-26.0	6.0-8.0	3.0-5.0	MAX 0.030	0.24-0.32	MAX 1.20	MAX 0.80	MAX 0.50	MAX 0.035	MAX 0.020	Balance

TYPICAL APPLICATIONS

- Chemical process pressure vessels, piping and heat exchangers
- Marine applications
- Pulp & paper mill equipment
- Offshore oil production & technology
- Oil and gas industry equipment

TENSILE REQUIREMENTS

TENSILE STRENGTH KSI (MIN.)	YIELD STRENGTH KSI (MIN.)
116	80

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.

REV 10-29-26