SUPER DUPLEX 2507 | UNS S32750

emetalsinc.com | +1 (877) 971-4500

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.

Product Capabilities

Form Name	Size Range	Schedules	Specifications
Welded Pipe	1/2”-36”	10S, 40S	ASTM A790 / ASME SA790 ASTM A928 / ASME SA928
Seamless Pipe	1/2”-36”	10S, 40S, 80S, 160	ASTM A790 / ASME SA790
Buttweld Fittings	1/2”-36”	10S, 40S, 80S. 160	ASTM A815 / ASME SA815
Flanges	1/2”-36”	150#, 300#	ASTM A182 F53 / ASME SA182 F53
Pressure Fittings	1/2”-2”	300#/6000#/9000# THRD/SW	ASTM A182 F53 / ASME SA182 F53

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 Industrial 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