

SUPERDUPLEX 32750 (SAF2507®)

UNS S32750
X2CrNiMoN 25 7 4
1.4410



Super Duplex alloy UNS S32750 (F53 / 1.4410 / 32750 / Alloy 2507) has excellent corrosion resistance to a wide variety of media, with outstanding resistance to pitting and crevice corrosion in seawater and other chloride containing environments, with Critical Pitting Temperature exceeding 50°C. UNS S32750 (F53 / 1.4410 / Alloy 32750) exhibits a low coefficient of thermal expansion and higher heat conductivity than austenitic steels and is suitable for working temperatures up to 300°C. Alloy 32750 can be used in a wide variety of applications

TECHNICAL INFORMATION Chemistry

El. Químico		% Máx.
C	C Carbon	0.03
Mn	Manganese	1.20
P	Phosphorus	0.035
S	Sulphur	0.020
Si	Silicon	0.80
Ni	Níckel	6.00 - 8.00
Cr	Chromium	24.0 - 26.0
Mo	Molibdenum	3.0 - 5.0
Cu	Copper	0.5
N	Nitrogen	0.24 - 0.32

Mechanical properties according to standar

ASTM Stand	Rm min.	Rp 0,2% min.	E4d min.%	Z min. %	T.I.(J)	HR B	HB
A-182	116 (800)	80 (550)	15				310
A-240	116 (795)	80 (550)	15				310
A-789	116 (800)	80 (550)	15				310
A-790	116 (800)	80 (550)	15				300
A-815	116-140 (800-965)	80 (550)	15				310
A-988	116 (800)	80 (550)	15				310

FEATURES

- Good to very good resistance to uniform, pitting and crevice corrosion
- High resistance to stress corrosion cracking and corrosion fatigue
- High mechanical strength
- Good abrasion and erosion resistance
- Good fatigue resistance
- High energy absorption
- Low thermal expansion
- Good weldability

APPLICATIONS

- Pulp and paper industry
- Desalination plants
- Flue-gas cleaning
- Cargo tanks and pipe systems in chemical tankers
- Pipework systems
- Seawater systems
- Components for structural design
- Storage tanks, Pressure vessels, Heat exchangers, Water heaters,...
- Marine industries

PRODUCTS



ROUND BAR
Diam. 10 to 400 mm
ASTM A-240



DIN / ASA FLANGES
1/2" to 24" 150lbs - 3000lbs
ASTM A-182



SEAMLESS PIPES
1/2" to 8" SCH10 to SCH80S
ASTM A-789/790



PLATE / FLAT PRODUCT
Tchk. 0.5 to 40 mm
ASTM A-240



WELDED PIPES
Diam. 10 to 400 mm
ASTM A-240



FITTINGS BW, SW, HIGH PRESSURE...
D8" to 24" SCH10 to SCH80S
ASTM A-815

