SUPER AUSTENITIC STAINLESS STEEL A182 F44 – 254 SMO® - 1.4547

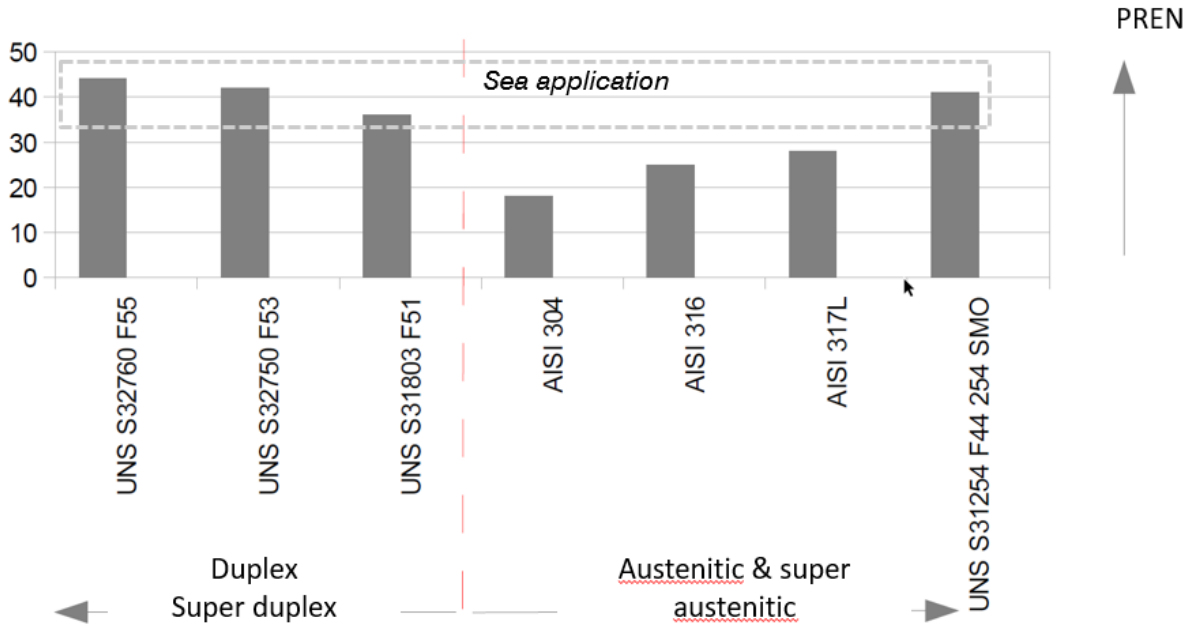
MF Inox produces screws, nuts and tie rods in A182 F44 - 254 SMO® super austenitic stainless steel excellent for sea, subsea and other aggressive chloride-bearing media.

A182 F44 - 254 SMO® is a 6% molybdenum and nitrogen-alloyed austenitic stainless steel with extremely high resistance to both uniform and localized corrosion.

This product was developed especially for oil and gas offshore platforms and the pulp and paper industry and for the following applications: resistance to chlorinated seawater components, flue gas cleaning, maritime exhaust gas cleaning, bleaching equipment in the pulp and paper industry flanges and valves, fasteners.

The corrosion resistance of the A182 F44 - 254 SMO® is optimal in the solubilized state and with high point corrosion resistance index values (Pitting Resistance Equivalent Number - PREN = %Cr + 3,3·%Mo + 16·%N); PREN> 42.5.

Corrosion resistance table according to the PREN:



CHEMICAL COMPOSITION

C	S	P	Si	Mn	Cr	Ni	Mo	Cu	N
<0.02	<0.01	<0.03	<0.70	<1.00	19.5 - 20.5	17.5 – 18.5	6.00 – 7.00	0.50 – 1.00	0.18 – 0.25

MECHANICAL PROPERTY

Yield	Rp 0.2	≥340 MPa
Tensile	Rm	680 MPa

SPECIFICATION AND DISEGNATIONS

W.	1.4547
UNS	UNS S31254
AISI	F44 A182
BRAND	254 SMO®