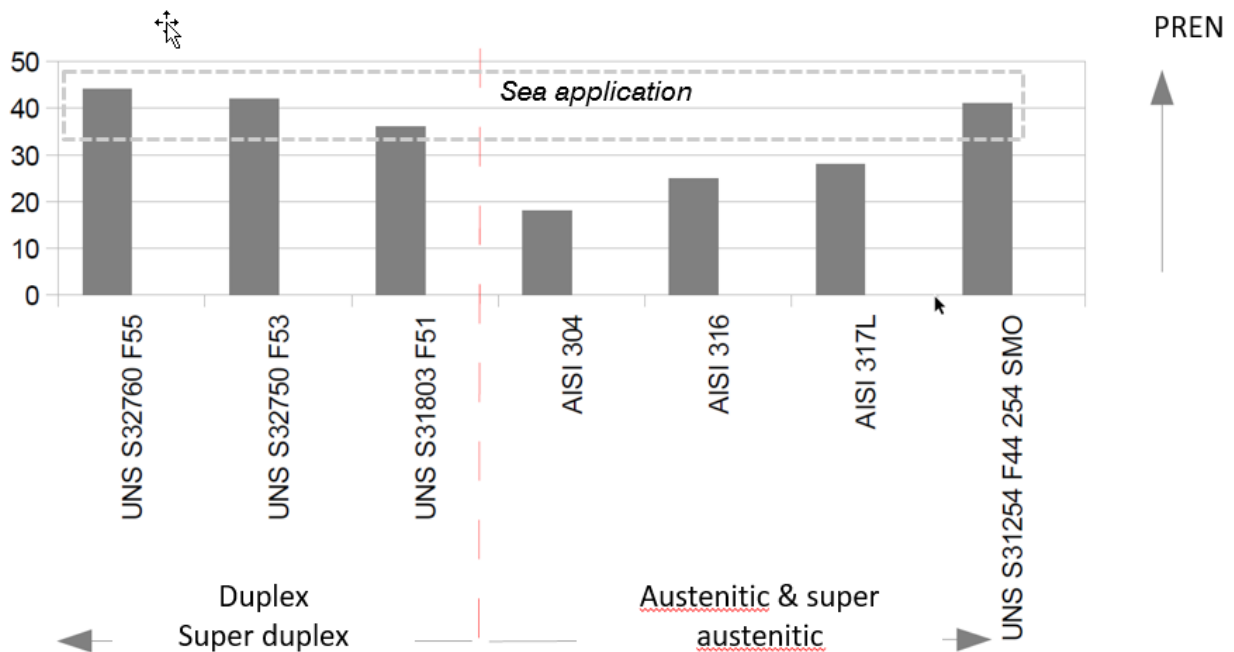


**Super duplex A182 F53 UNS S32750, Werkstoff 1.4410**

MF Inox produces screws, nuts and tie rods in super duplex A182 F53 UNS S32750 Werkstoff 1.4410 stainless steel with a high content of Cr, greater than 24%, and biphasic Ni-Mo-N (mixed austenitic and ferritic structure) resistant to pitting and stress corrosion. The addition of nitrogen gives this alloy excellent mechanical strength and great toughness, significantly improving corrosion resistance and high temperature stability. The corrosion resistance of the super duplex A182 F53 UNS S32750 Werkstoff 1.4410 is optimal in the solubilized state and with point corrosion resistance index values (Pitting Resistance Equivalent Number - PREN = % Cr + 3.3 · % Mo + 16 · % N) high. All biphasic stainless steels with PREN > 40 are from the super duplex family.

**Super duplex A182 F53 UNS S32750, Werkstoff 1.4410** it is used for components of valves, pumps, piping, infrastructures and in all components subjected to very severe corrosive conditions.

Corrosion resistance table according to the PREN:



**CHEMICAL PROPERTY**

C	S	P	Si	Mn	Cr	Ni	Mo	Cu	W	N
0,02	<0,005	0,025	0,50	0,85	25,3	6,10	3.6	0,3	0,1	0,25

**MECHANICAL PROPERTY**

Yield            RP 0.2% ≥530 MPa  
 Tensile        Rm     730-930 MPa

## **SPECIFICATION AND DISEGNATIONS**

EN 10088/3 X2CrNiMoN25.7.4  
W. 1.4410  
BRAND URANUS 47N  
AISI F53 A182/A479  
UNS S32750  
ALTRE NACE MR01-75  
ISO 15156  
EN 10088-3