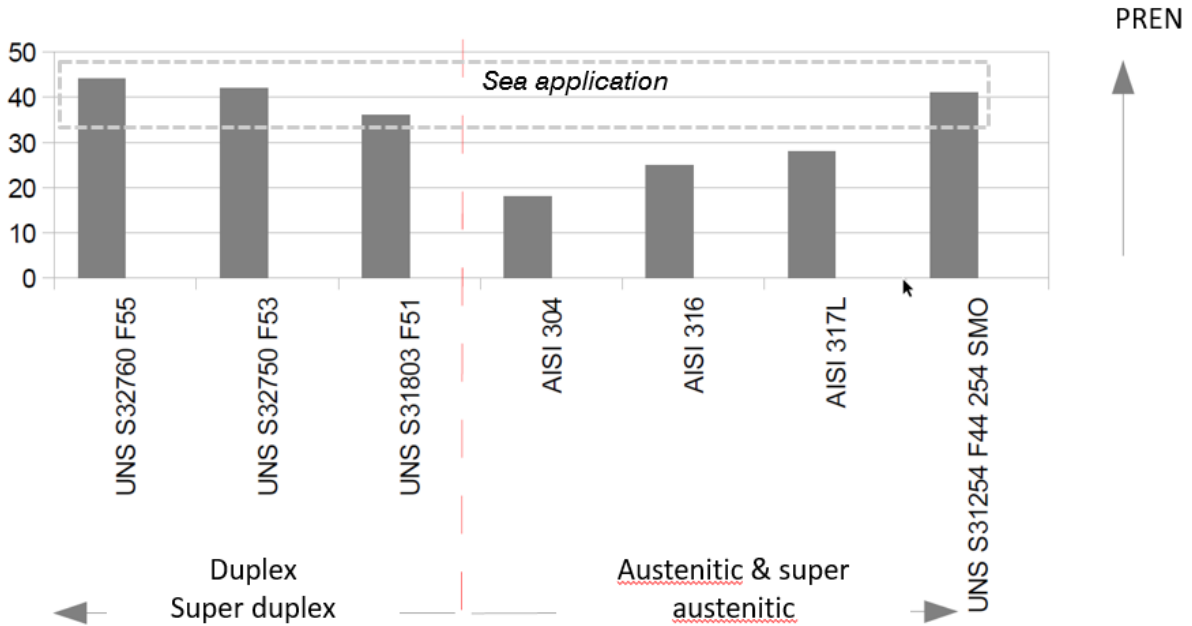


Super duplex A182 F55 - UNS S32760 - Werkstoff 1.4501 - SAF 2507

MF Inox produces screws, nuts and tie rods in super duplex stainless steel with high Cr content, greater than 16%, 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 F55 UNS S32760, Werkstoff 1.4501 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). All biphasic stainless steels with PREN > 40 are from the super duplex family.

Corrosion resistance table according to the PREN:



Super duplex stainless steel is used for components for valves, pumps, piping, infrastructures and in all components subjected to very severe corrosive conditions and in any case where duplex stainless steel fails.

We recommend using it at temperatures below 300 ° C

CHEMICAL COMPOSITION

C	S	P	Si	Mn	Cr	Ni	Mo	Cu	W	N
0.02	<0.005	0.025	0.50	0.60	25	7.00	3.6	0.60	0.60	0.25

MECHANICAL PROPERTY

Yield Rp 0.2 ≥550 MPa
 Tensile Rm 730 - 930 MPa (on demand up to 1050MPa)

STAINLESS STEEL MECHANICAL PROPERTIES COMPARATIVE TABLE:

Type	Rp 0,2% min (MPa)	RM min (MPa)	A% min
A182 F51/UNS S31803/2205	450	680 - 880	25
A182 F53/UNS S32750/	530	730 - 930	15
A182 F55/UNS S32760/2507	550	730 - 930	25
AISI 304	210	515 - 690	45
AISI 316	220	515 - 690	40

SPECIFICATION AND DESIGNATIONS

EN 10088/3 X2 Cr Ni Mo Cu W N 15-7-4
W. 1.4501
UNS UNS S32760
AISI F55 A182 / A479
BRAND URANUS 52N FERRALIUM 255
NORSOK M630 MDS D57 M650
OTHERS NACE MR01-75
ISO 15156
EN 10088-3
ASTM G48