

Duplex A182 F51 - UNS S31803 - Werkstoff 1.4462 - SAF 2205

MF Inox produces duplex screws, nuts and tie rods in A182 F51 UNS S31803 Werkstoff 1.4462 SAF 2205 a biphasic Cr-Ni-Mo-N stainless steel material (austenitic and ferritic structure) resistant to pitting and corrosion under stress. DUPLEX steel has good mechanical strength combined with excellent corrosion resistance which makes it suitable for seawater applications.

DUPLEX steel is used where normal austenitic stainless steels are unable to withstand corrosive environmental conditions, for the construction of parts such as bodies and parts of valves, pumps, washing systems, filters and all devices subjected to very severe corrosive conditions.

CHEMICAL COMPOSITION

C	S	P	Si	Mn	Cr	Ni	Mo	N
0.02	<0.015	0.025	0.50	1.4	22.70	5.6	3.2	0.16

MECHANICAL PROPERTIES

Yield Rp 0.2% \geq 450 N/mm²

Tensile Rm 650-880 N/mm²

SPECIFICATION AND DESIGNATIONS

EN 10088/3 X3 Cr Ni Mo N 22-5-3

W. 1.4462

BRAND SAF 2205 URANUS 45N

ASTM F51 A182 / A479

UNS S31803