



Grade	Code	AISI	Duplex Stainless Steel
1.4410	S 32750 (2CrNiMoN25-7-4)	F53	

Steel Properties

1.4410 is a corrosion resistant, austenitic-ferritic super-duplex steel. An austenite/ferrite structure and small grain size provide the material with its hardness, strength, and toughness. The super-duplex steel 1.4410, also known as F53, is used for components where conventional austenite and corrosion-resistant duplex steels ([1.4462](#)) fail to fulfil the corrosion requirements.

Chemical Composition (1.4410)

C %	P %	Si %	Mn %	S %	Cr %	Mo %	Ni %	Al %	Cu %
0,03 max.	0,035 max.	1,00 max.	2,00 max.	0,015 max.	24,00 – 26,00	3,00 – 4,50	6,00 – 8,00	-	0,5 max.

Mechanical Properties (EN10088-3 1.4410 max diameter 160mm - Solution Treated)

Product Form	Rp0.2, Mpa	Rm, Mpa	Elongation [%]	Hardness [HB]
Bar & Rod	530	730 – 930	25	290

Suitable For

Applications include Desalination plants, industrial piping, scrubbers, oil and gas industry, typically tubular products, flanges, fittings, and valves, deep-sea pipelines.

Remarks

1.4410 is characterized by excellent resistance in media containing chlorine and has been approved in NACE MR 0175 for sour gas applications and granted ASME approval for pressure vessels.

Specification

1.4410, SUPER DUPLEX UNS S32750, F53, 2507

Norm

EN 10088-3, ASTM A276, ASTM A479, ASTM A182–11A