

1.4410 (X2CrNiMoN25-7-4)

Material Designation

1.4410 DIN
 S32750 UNS
 F53 AISI

Standards

NORSOK M-630, MDS D57
 ANSI/NACE MR0175/ISO 15156-3
 ASTM A182, A276, A479
 DIN EN 10088-3

Chemical Composition Mass-%

	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	N
min.	-	-	-	-	-	24,0	6,0	3,0	-	0,20
max.	0,030	0,80	1,20	0,035	0,015	25,0	8,0	4,0	-	0,30

Customer specific restrictions upon request

Properties

25% Cr-Austenitic-ferritic steel (super duplex) with excellent resistance against corrosion, especially in media containing chloride (PREN > 40). Good mechanical properties.

Delivery Condition

✘ solution annealed (+AT)

Application Area

High-strength components in environments requiring resistance to crevice and pitting corrosion.

Typical Applications

- ✘ Chemical and petrochemical industry
- ✘ On- and offshore industry
- ✘ Piping and tank construction
- ✘ Pulp and paper industry

Mechanical Properties

Yield strength		Tensile strength		Elongation	Hardness	Impact toughness Charpy-V / - 46 °C	
[ksi]	[N/mm ²]	[ksi]	[N/mm ²]	[%]	[HBW]	[J]	[ft·lb]
≥ 80	≥ 550	≥ 110	≥ 750	≥ 25	≤ 310	≥ 45	≥ 33

Heat Treatment Guideline Values

	Temperature [°C]	Cooling medium
Solution annealing (+AT)	1040 - 1120	Water

Quality

- ISO 9001
- ISO 14001
- ISO 50001
- Approvals acc. to standards like ABS, BV, DNV ...
- Customer specific approval certificates

Innovation

- Fully automated ultrasonic testing up to dia. 39.3" (1000 mm)
- CO₂-reduction by innovative heat treatment solutions

Flexibility

- Product range from fine wire to forging
- Directly from stock close at hand

Individuality

- Dimensions
- Tolerances
- Surface qualities
- Delivery conditions

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