# **CORROSION AND HEAT RESISTANT STEEL**

# 1.4410 (X2CrNiMoN25-7-4)



Excellence in Specialty Steel

## Material Designation

1.4410 DINS32750 UNSF53 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	Р	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**

# **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/mm²]	[%]	[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, DNVGL ...
- Customer specific approval certificates

#### **Innovation**

- Fully automated ultrasonic testing up to dia. 39.3" (1000 mm)
- CO<sub>2</sub>-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

# Your personal contact:

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