

13Cr SMSS 110 ksi

Material Designation

S41425 UNS
X2CrNiMo13-5-2 DIN

Standards

ANSI/NACE MR 0175/ISO 15156-3
ASTM A479/A479M
ASTM A276/A276M
NORSOK M-650

Chemical Composition Mass-%

	C	Si	Mn	P	S	Cr	Ni	Mo	N	Cu
min.	-	-	0,5	-	-	12,0	5,0	1,5	0,06	-
max.	0,030	0,50	0,7	0,020	0,005	13,5	6,0	2,0	0,12	0,3

Properties

13% Cr-super martensitic stainless steel with high yield strength in combination with good resistance against corrosion in slightly sour environments.

Qualified according Norsok M-650 and NACE MR 0175/ISO 15156-3 annex B. Approved by major oil- and gas companies.

Delivery Condition

✘ quenched and tempered (+QT)

Application Area

High-strength components for the oil- and gas industry.

Typical Applications

- ✘ Chemical and petrochemical industry
- ✘ On- and offshore industry

Mechanical Properties longitudinal direction

Yield strength		Tensile strength		Elongation	Hardness	Impact toughness CVN / - 10 °C / 14 °F	
[ksi]	[N/mm ²]	[ksi]	[N/mm ²]	[%]	[HRC]	[J]	[ft·lb]
110 - 140	758-965	≥ 125	≥ 861	≥ 16	≤ 32	≥ 100	≥ 73

SSC / SCC data available on request.

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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