CORROSION AND HEAT RESISTANT STEEL

1.4841 (X15CrNiSi25-21)



Excellence in Specialty Steel

Material Designation

1.4841 DIN EN 10095 S31400 UNS 314 AISI

Standards

DIN EN 10095 ASTM A276

Chemical Composition Mass-%

	С	Si	Mn	Р	S	Cr	Ni	N	
min.		1,5	-	-	-	24,0	19,0	-	
max.	0,20	2,5	2,0	0,045	0,015	26,0	22,0	0,11	

Customer specific restrictions upon request

Properties

Stainless austenitic Cr-Ni-steel with excellent heat resistance and good mechanical properties at elevated temperatures. Scaling resistance up to 1150 °C in air. Resistant against chemical corrosion (PREN ≈ 24 - 29) up to 1100 °C.

The maximum operational temperature is lowered in carburizing or reducing atmospheres.

Delivery Condition

Application Area

High mechanical loads at elevated temperatures where resistance against scaling and corrosion is required.

Typical Applications

- Glass moulds
- Chemical and petrochemical industry
- ☆ General mechanical engineering
- * Automotive industry

Mechanical Properties solution annealed (+AT), acc. DIN EN 10095

Yield strength	Tensile strength	Elongation	Hardness	
[N/mm ²]	[N/mm ²]	[%]	[HBW]	
≥ 230	550 - 750	≥ 30	≤ 223	

Heat Treatment Guideline Values

	Temperature [°C]	Cooling medium
Solution annealing (+AT)	1050 - 1150	Water, air

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. 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

Your personal contact:

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