

# CORROSIONS-RESISTANT STEELS - AUSTENITIC STEELS AND NON MAGNETIC STEELS

## Application Segments

Oil & Gas/CPI

## Available Product Variants

Long Products\*

Plates

\* Presented data refer exclusively to long products. Please observe the detailed explanations at the end of the data sheet (pdf).

## Product Description

Böhler A970 is a stainless austenitic CrNiMoCu steel with excellent resistance to pitting, crevice and stress corrosion cracking. It is also resistant to intergranular corrosion up to 400°C. Required surface finish pickled, scale-free heat treated or machined. For components subjected to highly corrosive conditions, e.g. in seawater-cooled plants and in offshore applications. In areas of the chemical industry where, at higher pressures and temperatures, there is exposure to pure acids as well as acids containing chlorine ions (especially sulphuric acid), organic acids and acid mixtures. Due to the increased resistance to crevice corrosion, it can also be used wherever the formation of deposits is to be expected or where crevices cannot be prevented by constructive measures.

## Process Melting

Airmelted

## Applications

- > Components for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)
- > CPI (incl. LNG, Urea)
- > Wellhead, X-mas trees and Manifolds (incl. Tubing hangers), BOPs
- > Flowlines & Connectors
- > Other Oil and Gas + CPI components
- > Drilling tools and components
- > Well Completion Tools
- > Mechanical Engineering
- > Tubular Products, Flanges, Fittings
- > Well Logging Tools
- > Shafts
- > Shafts for Mechanical Engineering

## Technical data

Material designation		Standards	
1.4529	SEL	10088-3	EN ISO
X1NiCrMoCuN25-20-7	EN	B649	ASTM
N08926	UNS		

**Chemical composition (wt. %)**

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Fe	N
max. 0.020	max. 0.5	max. 2.00	max. 0.03	max. 0.01	19.00 to 21.00	6.0 to 7.0	24.00 to 26.00	0.5 to 1.5	REM	0.15 to 0.25

Refers to ASTM B649 UNS N08926.

**Delivery condition**

**Solution Annealed + Quenched**

Tensile Strength (MPa)	min. 650
Yield Strength (MPa)	min. 295

**Round Bars and Wire Rod (if any)**

Diameter*		mm	
<b>ROLLED</b>			
5.00	-	13.50	
12.50	-	130.00	
<b>FORGED</b>			
130.10	-	228.60	

\* Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 12.5 - 130 mm round bars.

More information regarding MOQ, lengths and tolerances upon request. Flat bars on request.

If other available product variants are listed in addition to long products, please note that these may differ in terms of melting process, technical data, delivery and surface condition as well as available product dimensions. For mandatory technical specifications, other requirements and dimensions, please contact our regional voestalpine BÖHLER sales companies. The data contained in this brochure is merely for general information and therefore shall not be binding on the company. We may be bound only through a contract explicitly stipulating such data as binding. Measurement data are laboratory values and can deviate from practical analyses. The manufacture of our products does not involve the use of substances detrimental to health or to the ozone layer.

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