

NI-BASE ALLOYS

Application Segments

Oil & Gas/CPI

Available Product Variants

Long Products*

Semi-Finished Products / Billet

Plates

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

Product Description

BÖHLER L276 is a nickel-chromium-molybdenum alloy with universal corrosion resistance unmatched by any other alloy. It has outstanding resistance to a wide variety of chemical process environments including ferric and cupric chlorides, hot contaminated mineral acids, solvents, chlorine and chlorine contaminated (both organic and inorganic), dry chlorine, formic and acetic acids, acetic anhydride, sea water and brine solutions and hypochlorite and chlorine dioxide solutions. BÖHLER L276 also resists formation of grain boundary precipitates in the weld heat affected zone making it useful for most chemical processes in the as-welded condition. BÖHLER L276 has excellent resistance to pitting and stress corrosion cracking.

Some typical applications of BÖHLER L276 include equipment components in chemical and petrochemical organic chloride processes and processes utilizing halide or acid catalysts. Other industry applications are pulp and paper (digesters and bleach areas), scrubbers and ducting for flue gas desulfurization, pharmaceutical and food processing equipment.

Process Melting

VIM + ESR or Airmelted + ESR

Applications

- Components for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)
- Components for the recycling industry
- Components for food processing and animal feed
- CPI (incl. LNG, Urea)
- Distributors or producers of standard parts without knowledge of final applications
- Other Oil and Gas + CPI components
- Tubular Products, Flanges, Fittings
- Valves and Actuators
- Well Completion Tools
- Wellhead, X-mas trees and Manifolds (incl. Tubing hangers), BOPs
- Heat Exchanger
- Paper and Pulp Industry / Printing

Technical data

Material designation		Standards	
Alloy 276	Market grade	17744	DIN
2.4819	SEL	17752	
NiMo16Cr15W	EN	B564	ASTM
N10276	UNS	B574	
		NACE MR0175 / ISO 15156	Others
		NACE MR0103 / ISO 17945	
		VdTÜV WB400	

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	V	W	Co	Fe
max. 0.01	max. 0.08	max. 1.00	max. 0.025	max. 0.010	14.50 to 16.50	15.00 to 17.00	REM	max. 0.35	3.00 to 4.50	max. 2.50	4.00 to 7.00

Related to VdTÜV WB400

Delivery condition

Solution Annealed + Quenched

Tensile Strength (MPa)	700 to 950
Yield Strength (MPa)	min. 280

Round Bars and Wire Rod (if any)

Diameter* mm		
ROLLED		
5.00	-	13.50
5.00	-	101.60
FORGED		
101.70	-	355.60

* Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 5.00 - 101.6 mm round bars.

Further information on MOQ, lengths and tolerances 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.

voestalpine BÖHLER Edelstahl GmbH & Co KG

Mariazeller Straße 25

8605 Kapfenberg, AT

T. +43/50304/20-0

E. info@bohler-edelstahl.at

<https://www.voestalpine.com/bohler-edelstahl/de/>

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ONE STEP AHEAD.