

# 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

- > Comp. for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)
- > CPI (incl. LNG, Urea)
- > Forging Applications
- > Other Oil and Gas + CPI comps.
- > Well Completion Tools
- > Components for Recycling Industry
- > Distributors for Component Applications
- > Oil & Gas / CPI
- > Tubular Products, Flanges, Fittings
- > Wellhead, X-mas trees and Manifolds (incl. Tubing hangers), BOPs
- > Comps. for Food processing and Animal Feed
- > Distributors or producers of standard parts without knowledge of final applications
- > Other Components
- > Valves and Actuators

## 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   ksi)	700 to 950   102 to 138
Yield Strength (MPa   ksi)	min. 280   41

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

		Diameter*			
		mm		inch	
<b>ROLLED</b>					
5.00	-	13.50		0.197	-
5.00	-	101.60		0.197	-
<b>FORGED</b>					
101.70	-	355.60		4.004	-

\* 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.

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**Long Products:** For additional specifications, technical requirements, and other dimensions, please contact our regional voestalpine BÖHLER sales companies.

**Semi-Finished Products:** Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact the business unit Semi Finished Products of voestalpine BÖHLER Edelstahl GmbH & Co KG.

**Sheet & Plates:** Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact voestalpine BÖHLER Bleche GmbH & Co KG.

*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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ONE STEP AHEAD.