

NI-BASE ALLOYS

Application Segments

Oil & Gas/CPI

Available Product Variants

Long Products*

Plates

*) Information and data presented in this Data-Sheet refers to the indicated Product Shape only. For information on further Product Shapes mentioned above please contact the regional BOHLER sales representative

Product Description

BOHLER 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. BOHLER 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. BOHLER L276 has excellent resistance to pitting and stress corrosion cracking. Some typical applications of BOHLER 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
- > 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	
2.4819	SEL	B564	ASTM
N10276	UNS	B574	
Alloy 276	Market grade	17744	DIN
		17752	
		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	
ROLLED					
5.00	-	13.50		0.197	-
5.00	-	101.60		0.197	-
FORGED					
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.

For more information see <https://www.voestalpine.com/boehler-edelstahl/de/>

For additional specifications and other sizes please contact BÖHLER Edelstahl - Special Materials Oil & Gas

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@boehler-edelstahl.at

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

voestalpine

ONE STEP AHEAD.