

# NI ESASLI ALAŞIMLAR

## Application Segments

Oil & Gas/CPI

## Mevcut Ürün Şekilleri

Uzun Ürünler\*

Yarı Mamül Ürünler / Kütük

Levhalar

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

## Ürün Tanımı

BÖHLER L022 belongs to the group of highly corrosion-resistant nickel-chromium-molybdenum-tungsten alloys with extremely low carbon and silicon contents. The material is characterised by excellent resistance in oxidising and reducing media, even at elevated temperatures. The alloy offers good resistance to wet media, e.g. sulphuric acid, phosphoric acid, nitric acid, chlorine gas, acid mixtures of sulphuric acid and oxidising acids with chloride ions. Recommended for use in the presence of strong oxidising agents such as iron(III) and copper(II) chlorides, chlorine, formic acid, acetic acid, seawater and other salt solutions. A special feature is the high resistance to crevice, pitting and stress corrosion cracking at elevated temperatures under oxidising and reducing conditions. Due to its good thermal stability, BÖHLER L022 can usually be used in the welded condition without subsequent heat treatment. Application in environmental technology, e.g. agitators, heat exchangers, blowers, linings and pipelines as well as spray systems, in flue gas cleaning systems for waste incineration plants and power stations, e.g. flaps, slide valves and measuring probes. Use in waste water treatment systems, e.g. pipelines, evaporation plants and in chemical engineering for plants for chlorine gas and hydrogen chloride production, e.g. shut-off valves, slide valves, pipelines and centrifuges. Chlorine bleaching plants, e.g. pipelines, measuring systems. Suitable for pressure vessels with wall temperatures from -196°C up to 400°C.

## Erime rotası

VIM + ESR or Airmelted + ESR

## Uygulamalar

- Kimya Tesisleri için Parçalar (LNG, FGD, Üre, LDPE tesisleri vs. dahil)
- Kimya Endüstrisi (LNG, Üre dahil)
- Diğer Petrol ve Gaz + Kimya Tesisi Parçaları
- Heat Exchanger (TR)
- Geri Dönüşüm Endüstrisi için Parçalar
- Petrol ve Gaz
- Borusal Ürünler, Flanşlar, Fitingler
- Paper and Pulp Industry / Printing
- Gıda İşleme ve Hayvan Yemi Endüstrileri için Parçalar
- Diğer Parçalar
- Vanalar ve Aktüatörler
- Storage technology

## Teknik veriler

Malzeme Tanımı		Standartlar	
Alloy C22	Market grade	B564	ASTM
2.4602	SEL	B574	
NiCr21Mo14W	EN	VdTÜV WB479	Others
N06022	UNS	NACE MR0103 / ISO 17945	
		NACE MR0175 / ISO 15156	

## Kimyasal Bileşim

C	Si	Mn	P	S	Cr	Mo	Ni	V	W	Co	Fe
maks. 0,010	maks. 0,08	maks. 0,5	maks. 0,025	maks. 0,010	20,0 kadar 22,5	12,5 kadar 14,5	REM	maks. 0,35	2,5 kadar 3,5	maks. 2,5	2,0 kadar 6,0

Refers to VdTÜV WB 479

## Teslimat durumu

### Solution Annealed + Quenched

Çekme mukavemeti (MPa)	690 kadar 950
Akma dayanımı (MPa)	min. 310

### Yuvarlak çubuklar

Çap*		mm	
<b>Haddelenmiş</b>			
5,00	-	13,50	
5,00	-	101,60	
<b>DÖVÜLMÜŞ</b>			
101,70	-	355,60	

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

Diameter 5.00 - 101.6 mm round bars.

Diameter from 5.0 to 13.5 mm available as Wire Rod. More information regarding MOQ, lengths and tolerances upon request.

**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.*

### 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.