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 L022 belongs to the group of highly corrosion-resistant nickel-chromium-molybdenum-tungsten alloys with extremely low carbon and silicon contents. Good resistance to wet media, e.g. sulphuric acid, nitric acid, 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 gas, formic acid, acetic acid, seawater and other salt solutions. High resistance to crevice, pitting and stress corrosion cracking at elevated temperatures under oxidising and reducing conditions. Used in environmental engineering, e.g. in agitators, heat exchangers and spray systems in flue gas cleaning plants and in waste water treatment plants, evaporation plants in chemical process engineering, in chlorine bleaching plants and plants for the production of chlorine gas and hydrogen chloride, e.g. butterfly valves, gate valves, pipelines and centrifuges. Suitable for pressurised containers with wall temperatures from-196°C to 400°C. Due to its good thermal stability, BÖHLER L022 can generally be used in the welded condition without subsequent heat treatment.

Process Melting

VIM + ESR or Airmelted + ESR

Applications

- Components for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)
- CPI (incl. LNG, Urea)
- Tubular Products, Flanges, Fittings
- Paper and Pulp Industry / Printing
- Components for the recycling industry
- Oil & Gas / CPI
- Valves and Actuators
- Oil & Gas, CPI & Renewables
- Components for food processing and animal feed
- Other Oil and Gas + CPI components
- Heat Exchanger

Technical data

Material designation	
Alloy C22	Market grade
2.4602	SEL
NiCr21Mo14W	EN
N06022	UNS

Standards	
B564	ASTM
B574	
VdTÜV WB479	Others
NACE MR0103 / ISO 17945	
NACE MR0175 / ISO 15156	

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	V	W	Co	Fe
max. 0.010	max. 0.08	max. 0.5	max. 0.025	max. 0.010	20.0 to 22.5	12.5 to 14.5	REM	max. 0.35	2.5 to 3.5	max. 2.5	2.0 to 6.0

Refers to VdTÜV WB 479

Delivery condition

Solution Annealed + Quenched

Tensile Strength (MPa)	690 to 950
Yield Strength (MPa)	min. 310

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.

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

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/

voestalpine
ONE STEP AHEAD.