

# NI-BASE ALLOYS

### **Application Segments**

Oil & Gas/CPI

# **Available Product Variants**

Long Products\* Open Die Forgings

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

# **Product Description**

BÖHLER L625 is a non-magnetizable corrosion and heat resistant nickel alloy in the form of bars, forgings and semi-finished products up to max 254 mm diameter/ cross-section and oxidation resistant up to 1093°C. Best fatigue strength and resistance to stress corrosion cracking when exposed to chloride containing media. Good weldability.

# **Process Melting**

VIM + ESR

#### **Applications**

> Comp. for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)

> Wellhead, X-mas trees and Manifolds (incl. Tubing hangers), BOPs

> Paper and Pulp Industry / Printing

- > Oil & Gas
- > Well Completion Tools
- > Other Oil and Gas + CPI comps.
- > Well Logging Tools

# Technical data

Material designation			
Alloy 625	Market grade		
2.4856	SEL	B564	ASTM
NiCr22Mo9Nb	EN		
N06625	UNS	<ul> <li>NACE MR01757 ISO 15158</li> <li>NACE MR0103 / ISO 17945</li> </ul>	Others
		INACE MIRU 103 / 150 1/945	

# Chemical composition (wt. %)

С	Si	Mn	Р	S	Cr	Мо	Ni	Co	Ti	AI	Nb	Fe
max. 0.10	max. 0.50	max. 0.50	max. 0.015	max. 0.015	20.0 to 23.00	8.0 to 10.00	REM	max. 1.00	max. 0.40	max. 0.40	3.15 to 4.15	max. 5.00

Related to ASTM B446 Grade 1 |Nb content refers to Nb + Ta





#### **Delivery condition**

thickness hickness
TICKIESS
TICKTIESS

Tensile Strength (MPa   ksi)	min. 758   110   above 102 mm up to 254 mm diameter or thickness				
Yield Strength (MPa   ksi)	min. 345   51   above 102 mm up to 254 mm diameter or thickness				

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

Diameter*								
mm			inch					
ROLLED								
12.50	-	101.60	0.492	-	4.000			
FORGED								
101.61	-	254.00	4.000	-	10.000			

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

Diameter 12.5 - 101.6 mm round bars.

More information regarding MOQ, length and tolerance upon request. Flat bars on request.

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

**Open Die Forgings:** 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 Open Die Forgings of voestalpine BÖHLER Edelstahl 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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