

# ALIAJE PE BAZĂ DE NI

## Application Segments

Aviație

Industria auto

## Available Product Variants

Long Products\*

Semi-Finished Products / Billet

Plates

Open Die Forgings

\* Datele prezentate se referă exclusiv la produsele lungi. Vă rugăm să respectați explicațiile detaliate de la sfârșitul fișei tehnice (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

- > Alte componente aerospațiale
- > Piese structurale (aerospațiale)
- > Turbine and Engine Parts (Aerospace)

## Technical data

Material designation		Standards	
Alloy 625	Market grade	B446 Grade 1	ASTM
2.4856	SEL	B564-06A	
NiCr22Mo9Nb	EN	5666	AMS
N06625	UNS		

## Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	Co	Ti	Al	Nb	Fe
max. 0.10	max. 0.50	max. 0.50	max. 0.015	max. 0.015	20.00 to 23.00	8.00 to 10.00	REM	max. 1.00	max. 0.40	max. 0.40	3.15 to 4.15	max. 5.00

Related to AMS 5666

## Delivery condition

## Receptă

Hardness (HB)	max. 287   Hot finished, round bars ground or turned
Tensile Strength (MPa)	min. 827   up to 101.6 mm diameter
Yield Strength (MPa)	min. 414   up to 101.6 mm diameter

## Receptă

Hardness (HB)	max. 287
Tensile Strength (MPa)	min. 758   above 101.6 mm up to 254 mm diameter
Yield Strength (MPa)	min. 345   über 101,6 mm bis zu 254 mm Durchmesser

## Round Bars and Wire Rod (if any)

Diameter mm			MOQ ex mill kg	Length m			Tolerance
<b>ROLLED</b>							
12.50	-	55.00	700	3.00	-	4.00	IT h/k 12
55.01	-	101.60	1,500	3.00	-	4.00	IT h/k 12
<b>FORGED</b>							
100.61	-	203.20	2,800	2.00	-	6.00	IT h/k 12

If other available product variants are listed in addition to long products, please note that these may differ in terms of melting process, technical data, delivery and surface condition as well as available product dimensions. For mandatory technical specifications, other requirements and dimensions, please contact our regional voestalpine BÖHLER sales companies. 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.