

# NI-BASE ALLOYS

# Application Segments

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	CI	US	μ	JC	C

Automotive

# **Available Product Variants**

en Die Forgings	Plates Open Die Forg		Semi-Finished Products / Billet	Long Products*
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\* 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**

- > Aerospace
- > Turbine and Engine Parts (Aerospace)
- Other Aerospace Components
  Automotive
- > Structural parts (Aerospace)
- > Motorsport industry

#### **Technical data**

Material designation			
Alloy 625	Market grade	B446 Grade 1	1.CT. 1
2.4856	SEL	B564-06A	ASTM
NiCr22Mo9Nb	EN	5666	AMS
N06625	UNS		7 (110

# Chemical composition (wt. %)

С	Si	Mn	Р	S	Cr	Мо	Ni	Co	Ті	AI	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**

Annealed			
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			
Annealed			
Annealed Hardness (HB)	max. 287		
	max. 287 min. 758   above 101.6 mm up to 254 mm diameter		

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

Diameter		MOQ ex mill	L	engt	th	Tolerance					
mn	n	kg	m								
	ROLLED										
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					
	FORGED										
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 BOHLER 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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