NI-BASE ALLOYS

Available Product Shapes

- Flat Bar
- Long Products
- Open Die Forgings
- Plates
- Round Bar
- Round Ground Bar

Product Description

Components for gas turbines, chemical plants, nuclear power plants, the aircraft industry, furnace construction and particular seawater applications.

Process Melting

- VIM + ESR

Properties

BOHLER L625 is a non magnetic, corrosion and oxidation - resistant, nickel - base alloy. High toughness and strength in the temperature range cryogenic to 1000°C. The alloy has excellent fatigue strength and stress corrosion cracking resistance to chloride ions. Weldability is good.

Applications

- Aerospace
- Comp. for Industrial Gas Compressors
- Distributors for Component Applications
- Flowlines & Connectors
- General Components for Mechanical Engineering
- Other Components
- Power Generation (Gas/Steam/ Nuclear)
- Tubular Products, Flanges, Fittings
- Valves and Actuators
- Wellhead, X-mas trees and Manifolds (incl. Tubing hangers), BOPs
- Blades & Shafts for Turbines and Compressors
- Comps. for Food processing and Animal Feed
- Distributors or producers of standard parts without knowledge of final applications
- Food processing Industry
- Oil & Gas
- Other Oil and Gas + CPI comps.
- Pumps and High Pressure Components
- Turbine and Engine Parts (Aerosp)
- Well Completion Tools
- Mechanical Engineering / Machine Building General
- Comp. for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)
- CPI (inc. LNG, Urea)
- Drilling Tools and Components
- Forging Applications
- Other Aerospace Comps.
- Other Power Generation Components
- Structural parts (Aerosp)
- Unknown Components Application
- Well Logging Tools

Material designation	
2.4856	SEL
N06625	UNS
N06002	UNS
NiCr22Mo9Nb	EN
NC22DNb	EN
Alloy 625	Market grade

Standards	
B446 G1	ASTM
B564-06A	ASTM
5599	AMS
5666	AMS

Chemical composition (wt. %)

C	Cr	Mo	Ni	Co	Ti	Al	Nb	Fe
≤ 0,050	21	8.5	Rest	≤ 1,00	≤ 0,40	0.18	3.4	≤ 3,0

Heat treatment

Temperature (°C | °F)		

Available Dimensions

Round Bars

Diameter					MOQ		Length					Tolerance*
mm			inch		kg	lbs	m			ft		
ROLLED												
12.50	-	55.00	0.492	- 2.165	700	1,543	3.00	-	4.00	9.84	- 13.12	IT h/k 12
55.01	-	101.60	2.166	- 4.000	1,500	3,307	3.00	-	4.00	9.84	- 13.12	IT h/k 12
FORGED												
100.61	-	203.20	3.961	- 8.000	2,800	6,173	2.00	-	6.00	6.56	- 19.69	IT h/k 12

* ISO 286

Thermal Expansions

Temperature (°C | °F)	200 | 392	400 | 752	600 | 1112	800 | 1472	1000 | 1832
Thermal expansion (10^{-6} m/(m.K) | 10^{-6} inch/(inch.F))	11.1 | 6.167	12.6 | 7	13.8 | 7.667	14.9 | 8.278	15.8 | 8.778

For more information see www.voestalpine.com/bohler-edelstahl

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ONE STEP AHEAD.