

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.

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	
NiCr22Mo9Nb	EN
NC22DNb	
Alloy 625	Market grade

Standards	
B446 G1	ASTM
B564-06A	
5599	AMS
5666	

Chemical composition

C	Cr	Mo	Ni	Co	Ti	Al	Nb	Fe
≤ 0,050	21.00	8.50	Rest	≤ 1,00	≤ 0,40	0.18	3.40	≤ 3,0

Delivery condition

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/boehler-edelstahl

voestalpine BÖHLER Edelstahl GmbH & Co KG

Mariazeller Straße 25

8605 Kapfenberg, AT

T. +43/50304/20-0

E. info@boehler-edelstahl.at

www.voestalpine.com/boehler-edelstahl

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ONE STEP AHEAD.