

OȚELURI REZISTENTE LA COROZIUNE - OȚELURI MARTENSITICE, SEMI- MARTENSITICE ȘI FERITICE

Application Segments

Inginerie

Available Product Variants

Long Products*

Plates

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

Product Description

BÖHLER N685 is a corrosion-resistant steel with molybdenum and vanadium additions in the form of bars, wire, forgings, and forging stock. These products have been used typically for parts in engineering and medical applications requiring hardness up to 58 HRC and resistance to wear, corrosion, and oxidation, but usage is not limited to such applications.

Process Melting

Aer topit

Applications

- > Produse tubulare, flanșe, fittinguri
- > Inginerie mecanică
- > Piese de uzură
- > Shafts for Mechanical Engineering
- > Inginerie civilă și mecanică
- > Pompe și componente de înaltă presiune
- > Surgery
- > Elemente de fixare, șuruburi, piulițe
- > Arbori
- > Industria electronică

Technical data

Material designation		Standards	
1.4112	SEL	10088-3	EN ISO
X90CrMoV18	EN		

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	V
0.85 to 0.95	max. 1.00	max. 1.00	max. 0.040	max. 0.030	17.0 to 19.0	0.90 to 1.30	0.07 to 0.12

Related to SEL 1.4112.

Delivery condition**Recoaptă**

Hardness (HB)	max. 265
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Round Bars and Wire Rod (if any)

		Diameter*	
		mm	
ROLLED			
5.00	-	13.50	
12.50	-	130.00	
FORGED			
130.10	-	203.20	

* Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 12.5 - 130 mm round bars.

More information regarding MOQ, tolerances and bar lengths upon request. Flat bars on request.

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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