

ALIAJE PE BAZĂ DE NI

Application Segments

Aviație	Industria auto	Petrol și gaze / IPC	Turbine terestre
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Available Product Variants

Long Products*	Semi-Finished Products / Billet	Plates	Open Die Forgings
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* Datele prezentate se referă exclusiv la produsele lungi. Vă rugăm să respectați explicațiile detaliate de la sfârșitul fișei tehnice (pdf).

Product Description

BÖHLER L718AMS is a corrosion and heat resistant nickel alloy - precipitation hardenable - in the form of bars, forging and forging stock. High resistance to creep and stress-rupture up to 1300°F (704°C) and oxidation resistance up to 1800°F (982°C). High duty parts and components for oil & gas and CPI applications, components for automotive, gas turbines, aerospace engines, high-speed airframe parts such as disks, buckets, spacers and high temperature bolts and fasteners.

Process Melting

VIM + VAR

Applications

- > Alte componente aerospațiale
- > Turbine and Engine Parts (Aerospace)
- > Lame și arbori pentru turbine și compresoare
- > Industria chimică - general
- > Componente pentru instalații chimice (inclusiv LNG, FGD, acid uric, LDPE etc.)
- > Componente pentru compresoare de gaze industriale
- > Componente pentru construcții subterane (foraje, puțuri etc.)
- > IPC (inclusiv LNG, uree)
- > Drilling tools and components
- > Elemente de fixare, șuruburi, piulițe
- > Industria hârtiei și a celulozei / Imprimare
- > Producerea de energie (gaz/vapori/nucleară)
- > Alte componente pentru producția de energie
- > Alte petrol și gaze + componente IPC
- > Instrumente de completare a sondelor
- > Instrumente de logare a sondelor
- > Kuyu başı, X-mas ağaçları ve Manifoldlar (boru askıları dahil), BOP'lar
- > Other Automotive Components (Sealing Rings, Sensors, Steering Systems)

Technical data

Material designation		Standards	
Alloy 718	Market grade	B637	ASTM
2.4668	SEL	5662	AMS
NiCr19NbMo/ NiCr19Fe19Nb5Mo3	EN	5663	
NC19FCNb			
N07718	UNS		

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Co	Ti	Al	Nb	B	Fe	Pb	Bi	Se
max. 0.08	max. 0.35	max. 0.35	max. 0.015	max. 0.015	17.00 to 21.00	2.80 to 3.30	50.00 to 55.00	max. 0.30	max. 1.00	0.65 to 1.15	0.20 to 0.80	4.75 to 5.50	max. 0.006	REM	max. 5ppm	max. 0.3ppm	max. 3ppm

Related to AMS5662

Delivery condition

Soluție recoaptă

Hardness (HB)	max. 277 bars and forging stock, max 254 mm diameter
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Round Bars and Wire Rod (if any)

Diameter* mm			MOQ ex mill kg	Length m			Tolerance
ROLLED							
5.00	-	13.50			-		
12.50	-	55.00	600	3.00	-	4.00	IT h/k 12
55.01	-	101.60	2,550	3.00	-	4.00	IT h/k 12
FORGED							
101.61	-	254.00	2,200	2.00	-	6.00	IT h/k 12

* Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 12.5 - 101.6 mm round bars.

More information regarding MOQ and tolerances for Wire Rod products upon 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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