NI-BASE ALLOYS

Application Segments

Aerospace

Available Product Variants

Long Products* | Semi-Finished Products / Billet | Plates

* Presented data refer exclusively to long products. Please observe the detailed explanations at the end of the data sheet (pdf).

Product Description

BÖHLER LHX is a corrosion and heat resistant nickel alloy in the form of bars, forging and forging stock.
Resistant to oxidation up to 2200°F (1204°C) and high strength above 1500°F (816°C).
It is widely used typically for parts, in engines especially for combustion chambers, after burners and exhaust components but usage is not limited to such applications.

Process Melting

VIM + VAR

Applications

- Turbine and Engine Parts (Aerospace)
- Other Aerospace Components

Technical data

Material designation	
Alloy X	Market grade
2.4665	SEL
NC22FeD	EN
N06002 N06002	UNS

Standards	
B572	ASTM
5754	AMS

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Co	Ti	Al	Nb	B
0.05 to 0.15	max. 1	max. 1	max. 0.04	max. 0.03	20.5 to 23	8 to 10	REM	max. 0.3	max. 1	0.65 to 1.15	0.2 to 1.15	4.75 to 5.5	max. 0.006

Related to AMS5754

Delivery condition

Solution annealed	
Hardness (HB)	max. 241

Round Bars and Wire Rod (if any)

Diameter mm			MOQ ex mill kg	Length m			Tolerance
ROLLED							
15.00	-	55.00	750	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	-	152.40	1,400	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 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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ONE STEP AHEAD.