

NI-BASE ALLOYS

Application Segments

Aerospace

Available Product Variants

Long Products*	Semi-Finished Products / Billet	Plates
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*) 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 \(Aerosp\)](#)
[> Aerospace](#)
[> Other Aerospace Comps.](#)

Technical data

Material designation		Standards	
2.4665	SEL	B572	ASTM
N06002	UNS	5754	AMS
N06002			
NC22FeD	EN		
Alloy X	Market grade		

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
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Round Bars and Wire Rod (if any)

Diameter		MOQ ex mill		Length		Tolerance								
mm	inch	kg	lbs	m	ft									
ROLLED														
15.00	-	55.00	0.591	-	2.165	750	1,653	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	-	152.40	3.961	-	6.000	1,400	3,086	2.00	-	6.00	6.56	-	19.69	IT h/k 12

Long Products: For additional specifications, technical requirements, and other dimensions, please contact our regional voestalpine BÖHLER sales companies.

Sheet & Plates: Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact voestalpine BÖHLER Bleche GmbH & Co KG.

Semi-Finished Products: Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact the business unit Semi Finished Products of voestalpine BÖHLER Edelstahl GmbH & Co KG.

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.