

OȚELURI REZISTENTE LA COROZIUNE - OȚELURI MARTENSITICE CĂLITE (PH)

Application Segments

Aviație

Industria auto

Available Product Variants

Long Products*

Semi-Finished Products / Billet

Plates

Open Die Forgings

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

Product Description

BÖHLER N709 is a premium aircraft-quality corrosion-resistant steel in the form of bars, wire, forgings up to 12.0 inches (305 mm) in diameter or least distance between parallel sides in the solution heat treated condition as well as stock of any size for forging.

It is a martensitic precipitation hardenable chromium-nickel-molybdenum-aluminium steel possessing high strength and toughness.

These products have been used typically for parts requiring corrosion resistance, stress-corrosion resistance and high strength up to 600 °F (316 °C) with good ductility and strength in the transverse direction in large section sizes but, but usage is not limited to such applications.

Certain processing procedures and service conditions may cause these products to become subject to stress-corrosion cracking.

Process Melting

VIM + VAR

Applications

> Alte componente aerospațiale

> Piese structurale (aerospațiale)

Technical data

Material designation		Standards	
13-8 Mo	Market grade	5629	AMS
1.4534	SEL		
X3CrNiMoAl13-8-2	EN		
S13800	UNS		

Chemical composition (wt. %)

C	Si	Mn	P	S	Cr	Mo	Ni	Al	N
max. 0.05	max. 0.10	max. 0.10	max. 0.010	max. 0.008	12.25 to 13.25	2.00 to 2.50	7.50 to 8.50	0.90 to 1.35	max. 0.010

Related to AMS 5629

Delivery condition

Soluție recoaptă

Hardness (HB)	max. 363 bars, hot or cold finished, forgings
Tensile Strength (MPa)	max. 1,207 for wire products

Round Bars and Wire Rod (if any)

Diameter mm			MOQ ex mill kg			Length m			Tolerance
ROLLED									
5.01	-	12.49	1,050			3.00	-	4.00	IT h/k 11
12.50	-	55.00	1,200			3.00	-	4.00	IT h/k 11
55.01	-	120.00	2,300			3.00	-	4.00	IT h/k 11
120.01	-	140.00	2,300			3.00	-	5.00	IT h/k 14
FORGED									
140.01	-	203.20	2,200			2.00	-	5.00	IT h/k 14

Flat Bars

Width mm			Thickness mm			MOQ ex mill kg			Length m			Tolerance
ROLLED												
15.00	-	121.00	8.00	-	86.00	1,300			3.00	-	4.00	LN 1017
120.00	-	150.00	25.00	-	85.00	2,550			3.00	-	4.00	LN 1017
150.00	-	275.00	20.00	-	100.00	2,550			3.00	-	4.00	LN 1017
275.00	-	330.00	25.00	-	80.00	2,550			3.00	-	4.00	LN 1017

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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