OȚELURI REZISTENTE LA COROZIUNE - OȚELURI MARTENSITICE CĂLITE (PH)

Application Segments

Inginerie

Available Product Variants

Long Products

Product Description

BÖHLER N709 is a corrosion-resistant steel for engineering applications in the form of bars, wire, and forgings with diameters/thicknesses up to 65 mm in the solution-annealed condition, as well as pre-forging stock of any size. It is a martensitic, precipitation-hardenable chromium-nickel-molybdenum-aluminum steel with high strength and toughness. These products are typically used for parts requiring corrosion resistance, stress corrosion resistance, and high strength up to 316 °C, with good ductility and transverse strength at large cross-sectional dimensions. However, their use is not limited to such applications.

Certain processing methods and operating conditions can make these products susceptible to stress corrosion cracking.

Process Melting

VIM + VAR

Applications

- Inginerie civilă și mecanică
- Arbori
- Elemente de fixare, șuruburi, piulițe
- Shafts for Mechanical Engineering
- Inginerie mecanică

Technical data

Material designation	
13-8 Mo XM-13	Market grade
1.4534	SEL
X3CrNiMoAl13-8-2	EN
S13800	UNS

Standards	
A564 F899	ASTM

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 ASTM B564 XM-13

Delivery condition

Soluție recoaptă

Hardness (HB)	max. 363 | Bars, hot or cold finished, forgings

Soluție recoaptă

Hardness (HRC)	max. 38

Round Bars and Wire Rod (if any)

Diameter* mm		
ROLLED		
5.00	-	13.50
15.00	-	65.00

* Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 15 - 65 mm round bars.

More information regarding MOQ, lengths and tolerances 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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ONE STEP AHEAD.