

CORROSION RESISTANT STEELS -MARTENSITIC PRECIPITATION HARDENING (PH) STEELS

aga	lication	Segments

Engineering

Available Product Variants

Long Products

Product Description

BÖHLER N709 is a corrosion-resistant steel in the form of bars, wire, forgings up to 2.5 inches (65 mm) in diameter or least distance between parallel sides in the solution heat treated condition and stock of any size for forging. It is a martensitic precipitation hardenable chromium-nickel-molydenum-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 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

- > Civil and mechanical engineering
- > Shafts

- > Fasteners, Bolts, Nuts
- > Medical

Ctandarda

- > Mechanical Engineering
- > Medical Industry

Technical data

Mauliatauada	
Market grade	
SEL	
EN	
UNS	

Standards		
	A564	A CTNA
	F899	ASTM





CORROSION RESISTANT STEELS -MARTENSITIC PRECIPITATION HARDENING (PH) STEELS

Chemical composition (wt. %)

С	Si	Mn	P	S	Cr	Мо	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

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

voestalpine BÖHLER Edelstahl GmbH & Co KG

Mariazeller Straße 25 8605 Kapfenberg, AT T. +43/50304/20-0 E. info@bohler-edelstahl.at https://www.voestalpine.com/bohler-edelstahl/de/

