

# CORROSION RESISTANT STEELS - MARTENSITIC PRECIPITATION HARDENING (PH ) STEELS

Application Segmen	nis			
Engineering				
Available Product V	/ariants			
Long Products				
Product Description	1			
toughness and corrosion The products are typically °C (800 °F) with good due BÖHLER N765 material a combination of strength, t PH 13-8Mo. Hardening temperatures corrosion cracking resista	resistance.  y used for heat-treate ctility and transverse achieves a tensile strughness and stress from 950°F to 1050°F ance.  the special and dema	od parts where resistance is strength are required. ength of over 250 ksi (172 corrosion cracking resistance can be selected to achie	co stress corrosic 2 MPa) when ac ance compared to we the desired co	H-Grade) with a unique combination of high strength on cracking, high strength and toughness up to 427 ged at 950 °F (H950 condition) and offers a superior to other high strength PH-steels such as 15-5PH or combination of strength, toughness and stress ustry, but is also used in marine equipment, firearms,
VIM + VAR				
Applications				
<ul><li>Civil and mechanical 6</li><li>Medical</li></ul>	engineering	<ul><li>&gt; Fasteners, E</li><li>&gt; Shafts</li></ul>	Bolts, Nuts	<ul><li>Mechanical Engineering</li><li>Medical Industry</li></ul>
Technical data				
Material designation		Standards		
Custom 465	Market grade	F899	4.0714	
S46500	UNS	A564	ASTM	



# CORROSION RESISTANT STEELS - MARTENSITIC PRECIPITATION HARDENING (PH ) STEELS

# Chemical composition (wt. %)

С	Si	Mn	Р	S	Cr	Мо	Ni	Ti	N
max. 0.02	max. 0.25	max. 0.25	max. 0.015	max. 0.010	11.00 to 12.50	0.75 to 1.25	10.75 to 11.25	1.50 to 1.80	max. 0.01

Refers to ASTM A564 S46500.

# **Delivery condition**

Hardness (HB) max. 331 | Additionally subzero treated

### Round Bars and Wire Rod (if any)

### Diameter\*

### mm

ROLLED					
5.00	-	13.50			
12.50	-	65.00			

<sup>\*</sup> Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 12.5 - 65 mm round bars.

Further information on MOQ, length and tolerance on 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

 $\hbox{E. info@bohler-edelstahl.at}\\$ 

https://www.voestalpine.com/bohler-edelstahl/de/

