

CORROSION RESISTANT STEELS - MARTENSITIC PRECIPITATION HARDENING (PH) STEELS

Application Segmen	nts			
Engineering				
Available Product \	/ariants			
Long Products				
Product Description	1			
up to 65 mm in the solution chromium-nickel-molybdocorrosion resistance, stre	on-annealed conditi enum-aluminum ste ess corrosion resista	ion, as well as pre-forging st eel with high strength and to	tock of any size. ughness. These o 316 °C, with g	pars, wire, and forgings with diameters/thicknesses It is a martensitic, precipitation-hardenable products are typically used for parts requiring ood ductility and transverse strength at large cross-
Certain processing metho	ods and operating o	conditions can make these p	roducts suscept	tible to stress corrosion cracking.
Process Melting				
VIM + VAR				
Applications				
Civil and mechanical eShafts	engineering	Fasteners, EMedical	Bolts, Nuts	Mechanical EngineeringMedical Industry
Technical data				
Material designation		Standards		
13-8 Mo XM-13	Market grade	A564	4.0714	
		F899	ASTM	
1.4534	SEL			_
X3CrNiMoAl13-8-2	EN			
S13800	UNS			



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Chemical composition (wt. %)

С	Si	Mn	Р	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.

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