

FERRİTİK VE MARTENSİTİK ÇELİKLER, ÇÖKELME SERTLEŞEBİLEN ÇELİKLER

Application Segments

Oil & Gas/CPI

Land Based Turbines

Mevcut Ürün Şekilleri

Uzun Ürünler*

Yarı Mamül Ürünler / Kütük

Açık Kalıpta Dövme

*) Presented data refer exclusively to long products. Please observe the detailed explanations at the end of the data sheet (pdf).

Ürün Tanımı

BÖHLER N400 is a stainless soft martensitic Cr steel with 4% nickel with molybdenum addition and medium corrosion resistance in media with only a low chloride content. To achieve the best possible corrosion resistance with BÖHLER N400, it is essential to polish the surfaces concerned. Good mechanical properties in the quenched and tempered condition. This makes this material very suitable for use in turbine and power plant construction. Very good low-temperature properties. Recommended temperature of use: - 60 to 350°C. Use for valves, pumps, compressors, centrifuges, hydroelectric machines, turbines, reactor technology, shipbuilding, chemicals. Special heat treatment to max. 23 HRC is required for sour gas environment in petroleum engineering.

Erime rotası

Airmelted

Uygulamalar

- Blades & Shafts for Turbines and Compressors
- Gıda İşleme ve Hayvan Yemi Endüstrileri için Parçalar
- Makine Mühendisliği için Genel Parçalar
- Diğer Parçalar
- Power Generation (Gas/Steam/ Nuclear)
- Steam Valves
- Water Power
- Kimya Tesisleri için Parçalar (LNG, FGD, Üre, LDPE tesisleri vs. dahil)
- Gıda İşleme Endüstrisi
- Makine Mühendisliği / Makine İmalatı, Genel
- Diğer Petrol ve Gaz + Kimya Tesisi Parçaları
- Pompalar ve Yüksek Basınç Parçaları
- Borusal Ürünler, Flanşlar, Fitingler
- Kuyubaşı, Noel Ağaçları ve Manifoldlar (Boru askıları dahil), Kaçak Önleyiciler
- Endüstriyel Gaz Kompresörleri için Parçalar
- Dövme Uygulamaları
- Petrol ve Gaz
- Diğer Enerji Üretimi Parçaları
- Miller
- Vanalar ve Aktüatörler
- Kimya Endüstrisi (LNG, Üre dahil)

Teknik veriler

Malzeme Tanımı		Standartlar	
F6NM	Market grade	10088-3	EN ISO
1.4313	SEL	A182/A182M	ASTM
X3CrNiMo13-4	EN		
S41500	UNS		

Kimyasal Bileşim

C	Si	Mn	P	S	Cr	Mo	Ni	N
maks. 0,05	maks. 0,70	maks. 1,50	maks. 0,040	maks. 0,015	12,0 kadar 14,0	0,30 kadar 0,70	3,5 kadar 4,5	min. 0,020

Refers to EN ISO 10088-3 1.4313

Teslimat durumu

Annealed	
Sertlik (HB)	maks. 320
Çekme mukavemeti (MPa)	maks. 1.100

Hardened and Tempered QT700	
Çekme mukavemeti (MPa)	700 kadar 850
Akma dayanımı (MPa)	min. 520

Hardened and Tempered QT780	
Çekme mukavemeti (MPa)	780 kadar 980
Akma dayanımı (MPa)	min. 620

Hardened and Tempered QT900	
Çekme mukavemeti (MPa)	900 kadar 1.100
Akma dayanımı (MPa)	min. 800

Yuvarlak çubuklar

Çap mm		
Haddelenmiş		
12,50	-	130,00
DÖVÜLMÜŞ		
130,10	-	1.040,00

More information regarding MOQ, lengths and tolerances upon request. Flat bars on request.

Long Products: For additional specifications, technical requirements, and other dimensions, please contact our regional voestalpine BÖHLER sales companies.

Open Die Forgings: Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact the business unit Open Die Forgings of voestalpine BÖHLER Edelstahl GmbH & Co KG.

Semi-Finished Products: Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact the business unit Semi Finished Products of voestalpine BÖHLER Edelstahl GmbH & Co KG.

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/

voestalpine

ONE STEP AHEAD.