

PLASTIC MOULD STEELS

PREHARDENED CORROSION RESISTANT STEEL

Mevcut Ürün Şekilleri

[Uzun Ürünler*](#)[Levhalar](#)

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

Ürün Tanımı

BÖHLER M303 is a corrosion resistant martensitic chromium steel, offering excellent toughness, corrosion and wear resistance. It is characterized by improved machinability and polishability.

Erime rotası

[Airmelted](#)

Özellikler

- > Tokluk ve Süneklik : yüksek
- > Aşınma Direnci : yüksek
- > İşlenebilirlik : iyi
- > Boyutsal kararlılık : iyi
- > Cilalanabilirlik : çok yüksek
- > Korozyon direnci : iyi
- > No heat treatment necessary
- > Prehardened

Uygulamalar

- > Blow Molding
- > Enjeksiyon kalıplama
- > Standard Parts (Molds, Plates, Pins, Punches)
- > Components for Displays
- > Otomobil Endüstrisi için Lambalar/ Mercekler
- > Glasfibre reinforced plastics
- > Gıda İşleme ve Hayvan Yemi Endüstrileri için Parçalar
- > Plastic Extrusion
- > Takım Tutucular (frezeleme, delme, tornalama & Aynalar)
- > Elektronik Endüstrisi
- > Packaging
- > Gıda İşleme Endüstrisi
- > Screws and Barrels
- > Camera lenses
- > Makine Mühendisliği için Genel Parçalar
- > Hotrunner systems

Teknik veriler

Malzeme Tanımı	
~1.2316	SEL
X36CrMo17 X38CrMo17	EN

Kimyasal Bileşim

C	Si	Mn	Cr	Mo	Ni	N
0,27	0,3	0,65	14,5	1	0,85	+

Teslimat durumu

Hardened and Tempered

Sertlik (HB)	350 kadar 390
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Isıl İşlem

Stress relieving

Sıcaklık	maks. 400 °C	Stress relieving after machining in the pre-hardened condition. After through-heating, soak for minimum 2 hours in a neutral atmosphere. Slow cooling in furnace with 20 °C/hr (68 °F/hr) down to 200 °C (390 °F), then cool down in an all-air environment.
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Fiziksel özellikler

Sıcaklık (°C)	20
Yoğunluk (kg/dm ³)	7,72
Termal iletkenlik (W/(m.K))	22,8
Özgül ısı kapasitesi (kJ/kg K)	0,46
Spes. elektrik direnci (Ohm.mm ² /m)	0,6
Elastikiyet modülü (10 ³ N/mm ²)	218

Termal genleşmeler

Sıcaklık (°C)	100	200	300	400	500	600
Termal genleşme (10 ⁻⁶ m/(m.K))	10,5	10,83	11,11	11,39	11,75	12,1

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

Sheet & Plates: Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact voestalpine BÖHLER Bleche 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.

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ONE STEP AHEAD.