

PLASTIC MOULD STEELS

HARDENABLE 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 M368 MICROCLEAN is a martensitic chromium steel produced with powder metallurgy. Due to its alloying concept, this steel offers high wear resistance, high toughness and high corrosion resistance – the perfect combination for best application properties.

Erime rotası

[Powder metallurgy](#)

Özellikler

- > Tokluk ve Süneklik : yüksek
- > Aşınma Direnci : yüksek
- > İşlenebilirlik : iyi
- > Boyutsal kararlılık : çok yüksek
- > Cilalanabilirlik : çok yüksek
- > Korozyon direnci : çok yüksek
- > Mikro temizlik : çok yüksek

Uygulamalar

- > Gıda İşleme ve Hayvan Yemi Endüstrileri için Parçalar
- > Plastic Extrusion
- > Medical
- > Components for Displays
- > Powder Pressing
- > Gıda İşleme Endüstrisi
- > Screws and Barrels
- > Camera lenses
- > Custom Hand Knives
- > Pill punching dies
- > Enjeksiyon kalıplama
- > Standard Parts (Molds, Plates, Pins, Punches)
- > Packaging
- > Elektronik Endüstrisi
- > Glasfibre reinforced plastics

Kimyasal Bileşim

C	Si	Mn	Cr	Mo	V	N
0,54	0,45	0,4	17,3	1,1	0,1	+

Teslimat durumu

Soft annealed

Sertlik (HB)	maks. 280
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Isıl İşlem

Sertleştirme ve Temperleme

Sıcaklık	980 kadar 1.000 °C	For hardening hold at temperature for 15 to 30 min. An optional sub-zero treatment at -80°C/-112°F can be applied after hardening. For highest corrosion resistance, temper once for a minimum of 2h at 250-350°C/482-662°F. For best wear resistance, temper twice for a minimum of 2h at 505-520°C/941-968°F (without sub-zero treatment) or 490-505°C/914-941°F (with sub-zero treatment). After each heat treatment step, material should be cooled down to approx. 30°C!
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Fiziksel özellikler

Sıcaklık (°C)	20
Yoğunluk (kg/dm ³)	7,7
Termal iletkenlik (W/(m.K))	22,3
Özgül ısı kapasitesi (kJ/kg K)	0,46
Spes. elektrik direnci (Ohm.mm ² /m)	-
Elastikiyet modülü (10 ³ N/mm ²)	219

Termal genleşmeler

Sıcaklık (°C)	100	200	300	400	500
Termal genleşme (10 ⁻⁶ m/(m.K))	10,3	10,82	11,2	11,56	11,87

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.