

PLASTIC MOULD STEELS

PREHARDENED STEEL

Mevcut Ürün Şekilleri

[Uzun Ürünler*](#)[Levhalar](#)

test 123344

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

Ürün Tanımı

BÖHLER M238 is a hardened and tempered, not corrosion resistant plastic mould steel. Because of the Ni-addition, there is no hardness decrease in the center of large sizes (up to 600 mm). A special melting technology offers good machinability.

Erime rotası

[Airmelted](#)

Özellikler

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

Uygulamalar

- > Enjeksiyon kalıplama
- > Makine Mühendisliği için Genel Parçalar
- > Standard Parts (Molds, Plates, Pins, Punches)
- > Otomobil Endüstrisi için Lambalar/ Mercekler
- > Takım Tutucular (frezeleme, delme, tornalama & Aynalar)
- > Hotrunner systems

Teknik veriler

Malzeme Tanımı		Standartlar	
1.2738	SEL	4957	EN ISO
40CrMnNiMo8-6-4	EN		

Kimyasal Bileşim

C	Si	Mn	Cr	Mo	Ni
0,38	0,3	1,5	2	0,2	1,1

Teslimat durumu

Hardened and Tempered	
Sertlik (HB)	355 kadar 395

Isıl işlem

Stress relieving		
Sıcaklık	500 °C	In hardened and tempered condition approx. 30 to 50 °C (86 to 122 °F) below the tempering temperature. After through heating, hold at temperature in neutral atmosphere for 1 to 2 hours. Slow cooling in furnace afterwards.

Fiziksel özellikler

Sıcaklık (°C)	20
Yoğunluk (kg/dm ³)	7,81
Termal iletkenlik (W/(m.K))	35,2
Özgül ısı kapasitesi (kJ/kg K)	0,465
Spes. elektrik direnci (Ohm.mm ² /m)	-
Elastikiyet modülü (10 ³ N/mm ²)	212

Termal genleşmeler

Sıcaklık (°C)	100	200	300	400	500
Termal genleşme (10 ⁻⁶ m/(m.K))	11,88	12,44	13	13,45	13,85

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.