

PLASTIC MOULD STEELS

PREHARDENED STEEL

Dostupne varijante proizvoda

Šipkasti proizvodi*

Ploče

test 123344

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

Opis proizvoda

BÖHLER M238 EXTRA je kaljeni i temperirani čelik za izradu kalupa za plastiku, nije otporan na koroziju. Uslijed dodatka dušika ne dolazi do smanjenja tvrdoće u središnjem dijelu komada velikih dimenzija (do 600 mm). Posebna tehnologija taljenja omogućuje dobru strojnu obradivost.

Put taljenja

Airmelted

Karakteristike

- > Žilavost i duktilnost : vrlo visoka
- > Otpornost na habanje : visok
- > Obradivost : dobar
- > Dimenzionalna stabilnost : dobar
- > Mogućnost poliranja : vrlo visoka
- > No heat treatment necessary
- > Prehardened

Korištenje

- > Lijevanje ubrizgavanjem
- > Standardni dijelovi (kalupi, ploče, klinovi, probijači)
- > Držači alata (mljevenje, bušenje, okretanje i stezne glave)
- > Opći sklopovi za strojarstvo
- > Automobilska svjetla/leće
- > Sustav za vruće spajanje

Technički podaci

Oznaka materijala	Standardi
1.2738 SEL	4957 EN ISO
40CrMnNiMo8-6-4 EN	

Kemijski sastav

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

Isporučka

Hardened and Tempered

Tvrdoća (HB)	355 do 395
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Toplinska obrada

Stress relieving

Temperatura	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.
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Fizička svojstva

Temperatura (°C)	20
Gustoća (kg/dm ³)	7,81
Toplinska vodljivost (W/(m.K))	35,2
Specifični toplinski kapacitet (kJ/kg K)	0,465
Spec. Otpornik (Ohm.mm ² /m)	-
Modul elastičnosti (10 ³ N/mm ²)	212

Toplinska ekspanzija

Temperatura (°C)	100	200	300	400	500
Toplinska ekspanzija (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.

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