

PLASTIC MOULD STEELS

PREHARDENED CORROSION RESISTANT STEEL

Dostupne varijante proizvoda

 Šipkasti proizvodi* Ploče

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

Opis proizvoda

BÖHLER M315 je čelik otporan na koroziju, namijenjen za izradu okvira ili obruča za gnijezga kalupa s bitno boljom strojnom obradivošću.

Put taljenja

 Airmelted

Karakteristike

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

Korištenje

- > Lijevanje upuhivanjem u kalupe
- > Lijevanje ubrizgavanjem
- > Sustav za vruće spajanje
- > Elektronička industrija
- > Pakiranje
- > Opći sklopovi za strojarstvo
- > Istiskivanje plastike

Technički podaci

Oznaka materijala
≈ 1.2099 SEL

Kemijski sastav

C	Si	Mn	S	Cr	Ni
0,05	0,4	0,9	0,12	12,5	+

Isporka

Hardened and Tempered	
Tvrdoća (HB)	290 do 330 If necessary the steel can be supplied with a hardness of up to 350 HB (~ Rm = 1200 MPa / 174 ksi).

Toplinska obrada

Stress relieving		
Temperatura	450 °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.

Fizička svojstva

Temperatura (°C)	20
Gustoća (kg/dm ³)	7,72
Toplinska vodljivost (W/(m.K))	23,9
Specifični toplinski kapacitet (kJ/kg K)	0,462
Spec. Otpornik (Ohm.mm ² /m)	-
Modul elastičnosti (10 ³ N/mm ²)	215

Toplinska ekspanzija

Temperatura (°C)	100	200	300	400	500
Toplinska ekspanzija (10 ⁻⁶ m/(m.K))	10,25	10,72	11,14	11,58	12,02

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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