

PLASTIC MOULD STEELS

HARDENABLE 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

Čelik za izradu kalupa za plastiku, otporan na trošenje i koroziju i pogodan za poliranje.

Put taljenja

[Powder metallurgy](#)

Karakteristike

- > Žilavost i duktilnost : dobar
- > Otpornost na habanje : vrlo visoka
- > Obradivost : dobar
- > Dimenzionalna stabilnost : vrlo visoka
- > Mogućnost poliranja : vrlo visoka
- > Otpornost na koroziju : dobar
- > Mikro čistoća : vrlo visoka

Korištenje

- > Sklopovi za prehrambenu industriju i hranu za životinje
- > Rezanje / strojni noževi
- > Prehrambena industrija
- > Istiskivanje plastike
- > Glasfibre reinforced plastics
- > Lijevanje ubrizgavanjem
- > Prilagođeni ručni noževi
- > Medicinski
- > Oblikovanje utiskivanjem praškastih materijala
- > Vijci i cijevi
- > Elektronička industrija
- > Pakiranje
- > Pill punching dies

Kemijski sastav

C	Si	Mn	Cr	Mo	V	W
1,9	0,7	0,3	20	1	4	0,6

Isporuka

Soft annealed

Tvrdoća (HB)	max. 280
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Toplinska obrada

Stress relieving

Temperatura	650 °C	After through-heating, soak for 4 hours in a neutral atmosphere. Furnace cooling down to 300 °C (570 °F), followed by air. After hardening and tempering, stress relieving has to be performed 50°C (90°F) below last tempering temperature.
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Hardening and Tempering

Temperatura	1.100 do 1.180 °C	For hardening hold at temperature for 20 to 30 min (for hardening temperature 1180°C/ 2156°F 5-10 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 200-300°C/ 392-572°F. For best wear resistance, temper twice for a minimum of 2h at 540-560°C/ 1004-1040°F (without sub-zero treatment) or 510-530°C/950-986°F (with sub-zero treatment). After each heat treatment step, material should be cooled down to approx. 30°C!
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Fizička svojstva

Temperatura (°C)	20
Gustoća (kg/dm ³)	7,54
Toplinska vodljivost (W/(m.K))	16,5
Specifični toplinski kapacitet (kJ/kg K)	0,48
Spec. Otpornik (Ohm.mm ² /m)	-
Modul elastičnosti (10 ³ N/mm ²)	227

Toplinska ekspanzija

Temperatura (°C)	100	200	300	400	500
Toplinska ekspanzija (10 ⁻⁶ m/(m.K))	10,38	10,67	10,96	11,24	11,56

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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