

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

BÖHLER M368 MICROCLEAN je martenzitni krom čelik, proizveden postupcima praškaste metalurgije. Zahvaljujući primijenjenoj koncepciji legiranja ovaj čelik ima visoku otpornost na trošenje, visoku žilavost i visoku otpornost na koroziju - idealna kombinacija za najbolja svojstva za primjenu.

Put taljenja

Powder metallurgy

Karakteristike

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

Korištenje

- > Sklopovi za prehrambenu industriju i hranu za životinje
- > Istiskivanje plastike
- > Medicinski
- > Components for Displays
- > Oblikovanje utiskivanjem praškastih materijala
- > Prehrambena industrija
- > Vijci i cijevi
- > Camera lenses
- > Prilagođeni ručni noževi
- > Pill punching dies
- > Lijevanje ubrizgavanjem
- > Standardni dijelovi (kalupi, ploče, klinovi, probijači)
- > Pakiranje
- > Elektronička industrija
- > Glasfibre reinforced plastics

Kemijski sastav

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

Isporka

Soft annealed	
Tvrdoća (HB)	max. 280

Toplinska obrada

Hardening and Tempering		
Temperatura	980 do 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!

Fizička svojstva

Temperatura (°C)	20
Gustoća (kg/dm ³)	7,7
Toplinska vodljivost (W/(m.K))	22,3
Specifični toplinski kapacitet (kJ/kg K)	0,46
Spec. Otpornik (Ohm.mm ² /m)	-
Modul elastičnosti (10 ³ N/mm ²)	219

Toplinska ekspanzija

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

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