

OȚELURI PENTRU MATRIȚE DIN PLASTIC - OȚELURI CĂLITE ȘI TEMPERATE, REZISTENTE LA COROZIUNE

Application Segments

Mucegai din plastic

Available Product Variants

Long Products

Product Description

BÖHLER M303 ISOPLAST corresponds to a remelted BÖHLER M303 . The variation in the production route enables greater toughness and polishability thanks to higher purity and improved homogeneity. Also available as product variant BÖHLER M303HH ISOPLAST (high-hard variant).

Process Melting

Topit în aer + refulat

Applications

- > Turnare prin suflare
- > Componente pentru afișaje
- > Componente pentru prelucrarea alimentelor și hrana animalelor
- > Industria ambalajelor
- > Turnare prin injecție
- > Lămpi/lentile pentru autovehicule
- > Vytlačanie plastov
- > Șuruburi și butoaie
- > Piese standard (matrițe, plăci, pini, perforatoare)
- > Materiale plastice ranforsate cu fibră de sticlă
- > Industria electronică
- > Sisteme Hotrunner

Technical data

Material designation	
~1.2316	SEL

Chemical composition (wt. %)

C	Si	Mn	Cr	Mo	Ni	N
0.27	0.3	0.65	14.5	1	0.85	+

Delivery condition

Durificat și temperat | BÖHLER M303 ISOPLAST

Hardness (HB)	290 to 330
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Durificat și temperat | BÖHLER M303HH ISOPLAST

Hardness (HB)	350 to 390
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Heat treatment

Eliminarea stresului

Temperature	max. 550 °C	Pre-hardened and tempered material M303 ISOPLAST: When stress-relieving the material after processing, keep the material at temperature in a neutral atmosphere for at least 2 hours after complete heating, then slowly cool the material in the oven at 20°C/hour to 200°C, then cool in air.
Temperature	max. 500 °C	Pre-hardened and tempered material M303HH ISOPLAST: When stress-relieving the material after machining, keep the material at temperature for at least 2 hours in a neutral atmosphere after complete heating, then slowly cool the material in the oven at 20°C/hour to 200°C, then cool in air.
Temperature		Newly hardened and tempered material: Carry out the stress relief heat treatment at approx. 30 to 50°C below the tempering temperature. After complete heating, hold at temperature for 1 to 2 hours in a neutral atmosphere, then slowly cool down the furnace.

Physical Properties

Temperature (°C)	20
Density (kg/dm ³)	7.72
Thermal conductivity (W/(m.K))	22.8
Specific heat (kJ/kg K)	0.46
Spec. electrical resistance (Ohm.mm ² /m)	-
Modulus of elasticity (10 ³ N/mm ²)	218

Thermal Expansions between 20°C | 68°F and ...

Temperature (°C)					
Thermal expansion (10 ⁻⁶ m/(m.K))	10.5	10.8	11.1	11.4	11.7

If other available product variants are listed in addition to long products, please note that these may differ in terms of melting process, technical data, delivery and surface condition as well as available product dimensions. For mandatory technical specifications, other requirements and dimensions, please contact our regional voestalpine BÖHLER sales companies. 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.

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