

HARDENABLE CORROSION RESISTANT STEELS

Available Product Shapes

Plates

Product Description

Advanced martensitic stainless chromium steel for plastic molds. By electroslag remelting and optimization of the chemical composition, BÖHLER M310 ISOPLAST offers many advantages.

Properties

- Good toughness & ductility
- Good wear resistance
- Very good machinability
- Very good dimensional stability
- Good polishability
- High corrosion resistance
- High micro-cleanliness

Material designation		Standards	
~1.2083	SEL	4957	EN ISO
~SUS420J2	JIS	A681	ASTM
X40Cr13	EN	AFNOR Z40C14	Others
X40Cr14			
~420	AISI		

Chemical composition

C	Si	Mn	Cr	V
0.38	0.70	0.45	14.30	0.20

Material characteristics

	Corrosion resistance	Machinability in as supplied condition	Polishability	Toughness	Wear resistance
BÖHLER M310 ISOPLAST®	★★★★	★★★★	★★	★★	★★
BÖHLER M333 ISOPLAST®	★★★★★	★★★★	★★★★★	★★★★★	★★
BÖHLER M340 ISOPLAST®	★★★	★★★	★★	★★	★★★
BÖHLER M368 MICROCLEAN®	★★★★	★★★	★★★★	★★★	★★★
BÖHLER M390 MICROCLEAN®	★★	★	★★★	★★	★★★★
BÖHLER M398 MICROCLEAN®	★★	★	★★★	★★	★★★★★

Physical Properties at 20°C / 68°F

Thermal Expansions

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572	400 / 752	500 / 932
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	10.63 / 5.906	10.94 / 6.078	11.29 / 6.272	11.66 / 6.478	12 / 6.667

For more information see www.voestalpine.com/boehler-edelstahl

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ONE STEP AHEAD.