

# PLASTIC MOULD STEELS - HEAT TREATABLE STEELS AND PRECIPITATION HARDENING STEELS

## Available Product Shapes

Plates

## Product Description

BÖHLER M238 is a hardened and tempered, not corrosion resistant plastic mould steel. Because of the Ni-addition, there is no hardness decrease in the center of large sizes (up to 600 mm). A special melting technology offers good machinability.

## Properties

Very high toughness & ductility

Good wear resistance

Good machinability

Good dimensional stability

Very good polishability

No heat treatment necessary

Pre-paid

Material designation		Standards	
1.2738	SEL	4957	EN ISO
40CrMnNiMo8-6-4	EN		

## Chemical composition

C	Si	Mn	Cr	Mo	Ni
0.38	0.30	1.50	2.00	0.20	1.10

## Material characteristics

	Etchability	Machinability in as supplied condition	Polishability	Through hardenability	Toughness	Wear resistance
<b>BÖHLER M238</b>	★★	★★★	★★★	★★★★	★★★★	★★
<b>BÖHLER M200</b>	★	★★★★★	★★	★	★★	★★
<b>BÖHLER M238 HIGH HARD</b>	★★★★	★★	★★★★	★★★★	★★★	★★★★
<b>BÖHLER M261</b>	★★	★★★★	★★	★★★	★★	★★★
<b>BÖHLER M268 VMR®</b>	★★★★★	★★	★★★★★	★★★★	★★★★★	★★★★
<b>BÖHLER M461</b>	★★★	★★★	★★★	★★★	★★★	★★★

## 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 <sup>-6</sup> m/(m.K) / 10 <sup>-6</sup> inch/(inch.F))	11.88 / 6.6	12.44 / 6.911	13 / 7.222	13.45 / 7.472	13.85 / 7.694

For more information see [www.voestalpine.com/boehler-edelstahl](http://www.voestalpine.com/boehler-edelstahl)

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ONE STEP AHEAD.