

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

## Available Product Shapes

Plates

## Product Description

BÖHLER M261 is a precipitation-hardening steel grade for plastic moulds, featuring excellent machinability in the as-supplied, i.e. solution annealed and aged, condition. There is no need for an additional heat treatment, significantly shortening the throughput time.

## Properties

- Good toughness & ductility
- Good wear resistance
- Very good machinability
- Good dimensional stability
- Good polishability

Material designation		
X13NiCuAlSi4-1-1	EN	
X13NiCuAl4-1-1		

## Chemical composition

C	Si	Mn	S	Cr	Ni	Cu	Al
0.13	0.30	2.00	0.15	0.35	3.50	1.20	1.20

## Material characteristics

	Etchability	Machinability in as supplied condition	Polishability	Through hardenability	Toughness	Wear resistance
<b>BÖHLER M261</b>	★★	★★★★★	★★	★★★	★★	★★★
<b>BÖHLER M200</b>	★	★★★★★	★★	★	★★	★★
<b>BÖHLER M238</b>	★★	★★★	★★★	★★★★★	★★★★★	★★
<b>BÖHLER M238 HIGH HARD</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))	12.63 / 7.017	13.06 / 7.256	13.5 / 7.5	13.89 / 7.717	14.27 / 7.928

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

**voestalpine BÖHLER Edelstahl GmbH & Co KG**

Mariazeller Straße 25

8605 Kapfenberg, AT

T. +43/50304/20-0

E. [info@boehler-edelstahl.at](mailto:info@boehler-edelstahl.at)

[www.voestalpine.com/boehler-edelstahl](http://www.voestalpine.com/boehler-edelstahl)

**voestalpine**

ONE STEP AHEAD.