

PLASTIC MOULD STEELS

PRECIPITATION HARDENED STEEL

Mevcut Ürün Şekilleri

[Uzun Ürünler*](#)[Levhalar](#)

*) Presented data refer exclusively to long products. Please observe the detailed explanations at the end of the data sheet (pdf).

Ürün Tanımı

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 workload time.

Erime rotası

[Airmelted](#)

Özellikler

- > Tokluk ve Süneklik : iyi
- > Aşınma Direnci : yüksek
- > İşlenebilirlik : çok yüksek
- > Cilalanabilirlik : iyi
- > Boyutsal kararlılık : iyi

Uygulamalar

- > Enjeksiyon kalıplama
- > Standard Parts (Molds, Plates, Pins, Punches)
- > Takım Tutucular (frezeleme, delme, tornalama & Aynalar)
- > Cold Forming
- > Hotrunner systems

Teknik veriler

| Malzeme Tanımı | |
|-----------------|----|
| X13NiCuAlS4-1-1 | EN |
| X13NiCuAl4-1-1 | |

Kimyasal Bileşim

| C | Si | Mn | S | Cr | Ni | Cu | Al |
|------|-----|----|------|------|-----|-----|-----|
| 0,13 | 0,3 | 2 | 0,15 | 0,35 | 3,5 | 1,2 | 1,2 |

Teslimat durumu

Solution annealed + precipitation hardened

| | |
|--------------|---------------|
| Sertlik (HB) | 340 kadar 390 |
|--------------|---------------|

Fiziksel özellikler

| | |
|---|-------|
| Sıcaklık (°C) | 20 |
| Yoğunluk (kg/dm ³) | 7,73 |
| Termal iletkenlik (W/(m.K)) | 29 |
| Özgül ısı kapasitesi (kJ/kg K) | 0,465 |
| Spes. elektrik direnci (Ohm.mm ² /m) | 0,37 |
| Elastikiyet modülü (10 ³ N/mm ²) | 204 |

Termal genleşmeler

| Sıcaklık (°C) | 100 | 200 | 300 | 400 | 500 |
|--|-------|-------|------|-------|-------|
| Termal genleşme (10 ⁻⁶ m/(m.K)) | 12,63 | 13,06 | 13,5 | 13,89 | 14,27 |

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.

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.

voestalpine BÖHLER Edelstahl GmbH & Co KG

Mariazeller Straße 25

8605 Kapfenberg, AT

T. +43/50304/20-0

E. info@bohler-edelstahl.at

<https://www.voestalpine.com/bohler-edelstahl/de/>

voestalpine

ONE STEP AHEAD.