

# ACCIAI DA UTENSILI PER LAVORAZIONE A FREDDO

## Granulometria disponibile

Prodotti lunghi\*

Lamiere

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

## Descrizione del prodotto

Acciaio per utensili temprabile in aria con buona tenacità ed elevata resistenza ad usura nonché buona resistenza al rinvenimento ed elevata resistenza all'usura a caldo.

## Percorso di fusione

Airmelted

## Proprietà

- > Durezza e duttilità : buono
- > Resistenza all'usura : buono
- > Resistenza alla compressione : alto
- > Stabilità dimensionale : buono

## Applicazioni

- > Lame automatiche (per produttori)
- > Tranciatura / Tranciatura fine / Stampaggio
- > Laminazione a freddo
- > Rulli
- > Stampaggio a freddo

## Dati tecnici

| Corrispondenze |     |
|----------------|-----|
| 1.2362         | SEL |
| X63CrMoV5-1    | EN  |

## Analisi chimica

| C    | Si   | Mn   | Cr   | Mo   | Ni   |
|------|------|------|------|------|------|
| 0,63 | 1,10 | 0,40 | 5,30 | 1,20 | 0,30 |

## Proprietà del materiale

|                    | Resistenza alla compressione | Stabilità dimensionale durante il trattamento termico | Tenacità | Abrasivo resistente all'usura |
|--------------------|------------------------------|---|----------|-------------------------------|
| <b>BÖHLER K313</b> | ★★★★                         | ★★★   | ★★★      | ★★★                           |
| <b>BÖHLER K305</b> | ★★★★★                        | ★★★   | ★★       | ★★★★★                         |
| <b>BÖHLER K306</b> | ★★★★                         | ★★★   | ★★★★★    | ★★★                           |
| <b>BÖHLER K320</b> | ★★★                          | ★★★   | ★★★      | ★★★                           |
| <b>BÖHLER K329</b> | ★★★                          | ★★★   | ★★★★★    | ★★★★★                         |
| <b>BÖHLER K600</b> | ★                            | ★★★   | ★★★★★    | ★                             |
| <b>BÖHLER K601</b> | ★                            | ★★★   | ★★★★★    | ★★                            |
| <b>BÖHLER K605</b> | ★★                           | ★★★   | ★★★★★    | ★                             |

## Condizioni di consegna

### Ricotto

|              |          |
|--------------|----------|
| Durezza (HB) | max. 240 |
|--------------|----------|

## Trattamento termico

### Annealing

|             |              |  |
|-------------|--------------|--|
| Temperatura | 800 a 850 °C | Slow controlled cooling in furnace at a rate of 50 to 68°F/hr (10 to 20°C/hr) down to approx. 600°C, further cooling in air. |
|-------------|--------------|--|

### Alleviare lo stress

|             |        |  |
|-------------|--------|--|
| Temperatura | 650 °C | Slow cooling in furnace; intended to relieve stresses set up by extensive machining, or in complex shapes. After through heating, hold in neutral atmosphere for 1 to 2 hours. |
|-------------|--------|--|

### Tempra e rinvenimento

|             |                |  |
|-------------|----------------|--|
| Temperatura | 980 a 1.020 °C | Oil, salt bath from 842 to 932°F (450 to 500°C), air (small sizes only) Holding time after temperature equalization: 15 to 30 minutes. Obtainable hardness: approx. 62 HRC |
|-------------|----------------|--|

**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.

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