

COLD WORK STEELS

Available Product Shapes

Long Products

Product Description

Cold shear blades especially for cutting scrap metal, drawing tools, engraving tools, bending tools.

Properties

Cold work tool steel with high toughness. For oil and air hardening.

| Material designation | | |
|----------------------|-----------------|-----|
| | 1.2746 | SEL |
| | ~ 45NiCrMoV16-6 | EN |

Chemical composition

| C | Si | Mn | Cr | Mo | Ni | V |
|------|------|------|------|------|------|------|
| 0.45 | 0.30 | 0.80 | 1.50 | 0.80 | 4.00 | 0.50 |

Material characteristics

| | Compressive strength | Dimensional stability during heat treatment | Toughness | Wear resistance abrasive |
|--------------------|----------------------|---|-----------|--------------------------|
| BÖHLER K601 | ★ | ★★★ | ★★★★★ | ★★ |
| BÖHLER K305 | ★★★★★ | ★★★ | ★★ | ★★★★★ |
| BÖHLER K306 | ★★★★★ | ★★★ | ★★★★★ | ★★★ |
| BÖHLER K313 | ★★★★★ | ★★★ | ★★★ | ★★★ |
| BÖHLER K320 | ★★★ | ★★★ | ★★★ | ★★★ |
| BÖHLER K329 | ★★★ | ★★★ | ★★★★★ | ★★★★★ |
| BÖHLER K600 | ★ | ★★★ | ★★★★★ | ★ |
| BÖHLER K605 | ★ | ★★★ | ★★★★★ | ★★ |

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)) | 11 / 6.111 | 12.5 / 6.944 | 13 / 7.222 | 13.5 / 7.5 | 14 / 7.778 |

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

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ONE STEP AHEAD.