

COLD WORK STEELS

Available Product Shapes

Plates

Product Description

Cutting tools (dies and punches) for the processing of plate; cold punches and shear blades; woodworking, coining and pneumatic tools. Hot work tools for use at moderate heat.

Properties

Shock resistant steel exhibiting excellent toughness and wear resistance.

| Material designation | |
|----------------------|------|
| ~1.2550 | SEL |
| ~60WCrV7 | EN |
| ~60WCrV8 | |
| ~S1 | AISI |

Chemical composition

| C | Si | Mn | Cr | V | W |
|------|------|------|------|------|------|
| 0.63 | 0.60 | 0.30 | 1.10 | 0.18 | 2.00 |

Material characteristics

| | Compressive strength | Dimensional stability during heat treatment | Toughness | Wear resistance abrasive |
|--------------------|----------------------|---|-----------|--------------------------|
| BÖHLER K455 | ★★★ | ★ | ★★★★★ | ★ |
| BÖHLER K245 | ★★ | ★ | ★★★★★ | ★ |
| BÖHLER K460 | ★★★★ | ★ | ★★★★ | ★★ |
| BÖHLER K720 | ★★ | ★ | ★★★★ | ★ |

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/boehler-edelstahl

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ONE STEP AHEAD.