

COLD WORK STEELS

Available Product Shapes

Round Bar

Product Description

BÖHLER's cold work tool steel K490 MICROCLEAN closes the gap in the material demands between wear resistance and the desired high toughness.

Properties

- High hardness (up to 64 HRC)
- Very good toughness
- High abrasive and adhesive wear resistance
- Excellent hard machinability
- High compressive strength
- Heat treatment together with common cold work tool steels (1.2379, D2) at hardening temperatures from 1030 to 1080 °C (1885 – 1980 °F) possible
- Stable mechanical properties

Chemical composition

C	Cr	Mo	V	W	Nb
1.40	6.40	1.50	3.70	3.50	+

Material characteristics

	Compressive strength	Dimensional stability during heat treatment	Toughness	Wear resistance abrasive	Wear resistance adhesive
BÖHLER K490 MICROCLEAR®	★★★★	★★★★★	★★★★	★★★★	★★★★
BÖHLER K100	★★	★★	★	★★★	★★
BÖHLER K105	★★	★★	★	★★	★★
BÖHLER K107	★★	★★	★	★★★	★★
BÖHLER K110	★★	★★★	★	★★★	★★
BÖHLER K190 MICROCLEAR®	★★★★	★★★★★	★★★★	★★★★	★★★★
BÖHLER K294 MICROCLEAR®	★★★★★	★★★★★	★★★	★★★★★	★★★★★
BÖHLER K340 ISODUR®	★★★	★★★★	★★★	★★★	★★★★
BÖHLER K340 ECOSTAR®	★★★	★★★	★★	★★	★★
BÖHLER K360 ISODUR®	★★★	★★★★	★★★	★★★★	★★★★
BÖHLER K346	★★★	★★★	★★★	★★★★	★★
BÖHLER K353	★★	★★★	★★	★★	★★
BÖHLER K390 MICROCLEAR®	★★★★★	★★★★★	★★★★	★★★★★	★★★★★
BÖHLER K890 MICROCLEAR®	★★★★	★★★★★	★★★★★	★★★	★★★
BÖHLER K497 MICROCLEAR®	★★★★★	★★★★★	★★★	★★★★★	★★★★★

Physical Properties at 20°C / 68°F

Thermal Expansions

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572	400 / 752	500 / 932	600 / 1112	700 / 1292
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	10.6 / 5.889	11.1 / 6.167	11.6 / 6.444	11.9 / 6.611	12.3 / 6.833	12.6 / 7	12.8 / 7.111

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

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ONE STEP AHEAD.