

COLD WORK STEELS

Available Product Shapes

Long Products

Product Description

The BÖHLER K340 ECOSTAR is a conventionally melted, oil- and air-hardened 8% chromium steel with improved matrix structure and with good dimensional stability. This results in material properties that are particularly well suited to working with combined loading.

Properties

The outstanding performance characteristics and material properties of BÖHLER K340 ECOSTAR improve the cost-effectiveness of their tools. Advantages in tool-making

- Good EDM machinability
- Good dimensional stability
- Good machinability
- Excellent nitridability
- Excellent coatability

Advantages in tool use

- Excellent adhesive wear resistance
- High compressive strength
- Easy to regrind
- High cutting edge retention
- Consistently high component precision
- Safety against breakage or failure in use
- Reproducible tool Parameters

Chemical composition

C	Si	Mn	Cr	Mo	V
1.10	0.70	0.40	8.20	2.10	0.50

Material characteristics

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

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))	11.2 / 6.222	11.8 / 6.556	12.3 / 6.833	12.7 / 7.056	12.9 / 7.167	13.1 / 7.278	13.1 / 7.278

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

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ONE STEP AHEAD.