

COLD WORK STEELS

Available Product Shapes

Long Products

Product Description

BÖHLER K360 ISODUR is a further development of the 8% chromium steels and has been developed to meet the needs of our customers now more than ever before. A Remarkably high wear resistance together with good compressive strength makes this steel a real problem-solver.

Properties

- Excellent wear resistance in combination with high toughness and good compressive strength
- Very good resistance to tempering
- Secondary-hardening cold work tool steel with good dimensional stability
- Very well suited to salt-bath, gas and plasma nitriding
- Can be PVD coated well
- Well suited to vacuum hardening
- Thanks to the chemical composition and the manufacturing process, this steel has finer distributed carbides than ledeburitic 12% Cr-steels.

Chemical composition

C	Si	Mn	Cr	Mo	V	Al	Nb
1.25	0.90	0.35	8.75	2.70	1.18	+	+

Material characteristics

	Compressive strength	Dimensional stability during heat treatment	Toughness	Wear resistance abrasive	Wear resistance adhesive
BÖHLER K360 ISODUR®	★★★	★★★★★	★★★	★★★★★	★★★★★
BÖHLER K100	★★	★★	★	★★★	★★
BÖHLER K105	★★	★★	★	★★	★★
BÖHLER K107	★★	★★	★	★★★	★★
BÖHLER K110	★★	★★★	★	★★★	★★
BÖHLER K190 MICROCLEAN™	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
BÖHLER K294 MICROCLEAN™	★★★★★	★★★★★	★★★	★★★★★	★★★★★
BÖHLER K340 ISODUR®	★★★	★★★★★	★★★	★★★	★★★★★
BÖHLER K340 ECOSTAR®	★★★	★★★	★★	★★	★★
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
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	11.2 / 6.222	11.5 / 6.389	11.8 / 6.556	12.3 / 6.833	12.7 / 7.056

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

voestalpine BÖHLER Edelstahl GmbH & Co KG

Mariazeller Straße 25

8605 Kapfenberg, AT

T. +43/50304/20-0

E. info@boehler-edelstahl.at

www.voestalpine.com/boehler-edelstahl

voestalpine

ONE STEP AHEAD.