

COLD WORK STEELS

Available Product Shapes

Round Bar

Product Description

BÖHLER K340 ISODUR, an 8% chromium steel, is produced using the electro-slag remelting (ESR) method. This by BÖHLER developed and proven remelting technology, ensures extremely low micro and macro segregations and gives the material the purity and homogeneity necessary for excellent performance in practice.

Properties

Key reasons for the broad application spectrum of BÖHLER K340 ISODUR:

- Outstanding toughness
- Excellent compressive strength
- Very good machinability due to homogeneous structure
- Smaller dimensional changes

BÖHLER K340 ISODUR is particularly suitable for the following application areas:

- Cutting
- Blanking
- Cold forming

Chemical composition

C	Si	Mn	Cr	Mo	V	Al	Nb
1.10	0.90	0.40	8.30	2.10	0.50	+	+

Material characteristics

	Compressive strength	Dimensional stability during heat treatment	Toughness	Wear resistance abrasive	Wear resistance adhesive
BÖHLER K340 ISODUR®	★★★	★★★★★	★★★	★★★	★★★★★
BÖHLER K100	★★	★★	★	★★★	★★
BÖHLER K105	★★	★★	★	★★	★★
BÖHLER K107	★★	★★	★	★★★	★★
BÖHLER K110	★★	★★★	★	★★★	★★
BÖHLER K190 MICROCLEAN™	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
BÖHLER K294 MICROCLEAN™	★★★★★	★★★★★	★★★	★★★★★	★★★★★
BÖHLER K340 ECOSTAR®	★★★	★★★	★★	★★	★★
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.