

COLD WORK STEELS

Available Product Shapes

Plates

Product Description

Blanking and punching tools, cold pilger rolling tools, shear blades, machine knives for the cellulose, paper and fiberboard industries, cutlery dies, hot work tools.

Properties

Tool steel having excellent toughness and wear resistance, as well as high retention of hardness.

Material designation	
~1.2345	SEL
~X50CrMoV5-1	EN

Chemical composition

C	Si	Mn	Cr	Mo	V
0.51	0.95	0.30	5.00	1.40	1.40

Material characteristics

	Compressive strength	Dimensional stability during heat treatment	Toughness	Wear resistance abrasive
BÖHLER K306	★★★★	★★★	★★★★	★★★
BÖHLER K305	★★★★★	★★★	★★	★★★★★
BÖHLER K313	★★★★	★★★	★★★	★★★
BÖHLER K320	★★★	★★★	★★★	★★★
BÖHLER K329	★★★	★★★	★★★★	★★★★
BÖHLER K600	★	★★★	★★★★★	★
BÖHLER K601	★	★★★	★★★★	★★
BÖHLER K605	★	★★★	★★★★	★★

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))	11.5 / 6.389	12 / 6.667	12.2 / 6.778	12.5 / 6.944	12.9 / 7.167

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

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ONE STEP AHEAD.