

COLD WORK STEELS

Available Product Shapes

Long Products

Product Description

Highly stressed coining tools, cutlery dies, hobbing tools, cold shear blades for heavygauge material, plastic moulds.

Properties

Cold work tool steel with high toughness and full hardenability, for air hardening.

Material designation	
~1.2721	SEL
~50NiCr13	EN

Chemical composition

C	Si	Mn	Cr	Mo	Ni
0.55	0.30	0.40	1.00	0.25	3.00

Material characteristics

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

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 / 6.111	12.5 / 6.944	13 / 7.222	13.5 / 7.5	14 / 7.778

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

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ONE STEP AHEAD.