

COLD WORK STEELS

Available Product Shapes

Plates

Product Description

Tools (punches) and dies for blanking, punching and similar operations; threading and woodworking tools, machine knives for the pulp, paper and metalworking industries; measuring tools and plastic moulding dies.

Properties

Oil hardening, dimensionally stable tool steel.

Material designation		Standards	
1.2842	SEL	4957	EN ISO
~T31502	UNS		
90MnCrV8	EN		
~O2	AISI		

Chemical composition

C	Si	Mn	Cr	V
0.90	0.25	2.00	0.35	0.10

Material characteristics

	Compressive strength	Dimensional stability during heat treatment	Toughness	Wear resistance abrasive
BÖHLER K720	★★	★	★★★★★	★
BÖHLER K245	★★	★	★★★★★	★
BÖHLER K455	★★★	★	★★★★★	★
BÖHLER K460	★★★★★	★	★★★★★	★★

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	12.8 / 7.111

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

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ONE STEP AHEAD.