

HOT WORK TOOL STEELS

Available Product Shapes

Round Bar

Product Description

Hot work tool steel featuring excellent hot tensile properties, high retention of hardness, good toughness and resistance to heat checking, admits water cooling.

Properties

Good toughness & ductility

High wear resistance

Very good machinability

High hot hardness

Good polishability

High thermal conductivity

Good micro-cleanliness

Coatable

Can be nitrated

Very high thermal stability

Material designation		Standards	
1.2367	SEL	4957	EN ISO
X38CrMoV5-3	EN		

Chemical composition

C	Si	Mn	Cr	Mo	V
0.38	0.40	0.40	5.00	2.80	0.55

Material characteristics

	High temperature strength	High temperature toughness	High temperature wear resistance	Machinability
BÖHLER W303 ISODISC®	★★★★	★★★	★★★★	★★★★★
BÖHLER W300 ISODISC®	★★	★★★	★★	★★★★★
BÖHLER W300 ISOBLOC®	★★	★★★★	★★	★★★★★
BÖHLER W302 ISODISC®	★★★	★★★	★★★	★★★★★
BÖHLER W302 ISOBLOC®	★★★	★★★★	★★★	★★★★★
BÖHLER W320 ISODISC®	★★★	★★	★★★	★★★★★
BÖHLER W350 ISOBLOC®	★★★	★★★★★	★★★	★★★★★
BÖHLER W360 ISOBLOC®	★★★★★	★★★★	★★★★★	★★★★★
BÖHLER W400 VMR®	★★	★★★★★	★★	★★★★
BÖHLER W403 VMR®	★★★★	★★★	★★★★	★★★★

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))	11.5 / 6.389	12 / 6.667	12.2 / 6.778	12.5 / 6.944	12.9 / 7.167	13 / 7.222	13.2 / 7.333

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

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ONE STEP AHEAD.