

# HOT WORK TOOL STEELS

## Available Product Shapes

Open Die Forgings

## Product Description

Vacuum remelted hot work tool steel with a good temper resistance, but tougher than W403.

## Properties

- High toughness & ductility
- High wear resistance
- Good machinability
- High hot hardness
- Mirror finish polishability
- Very high thermal conductivity
- Very high micro-cleanliness
- High resistance to fire cracking
- Excellent homogeneity and isotropy
- Coatable
- Lowest levels of unwanted trace elements
- Can be nitrated

Material designation		Standards	
1.2340	SEL	#207	NADCA
~1.2343			
~T20811	UNS		
~X37CrMoV5-1	EN		
~H11	AISI		
E1810	NADCA		

## Chemical composition

C	Si	Mn	Cr	Mo	V
0.37	0.20	0.30	5.00	1.30	0.50

**Material characteristics**

	High temperature strength	High temperature toughness	High temperature wear resistance	Machinability
<b>BÖHLER W400</b> <b>VMR</b> <sup>®</sup>	★★	★★★★★	★★	★★★★
<b>BÖHLER W300</b> <b>ISOBLOC</b> <sup>®</sup>	★★	★★★★	★★	★★★★★
<b>BÖHLER W300</b> <b>ISODISC</b> <sup>®</sup>	★★	★★★	★★	★★★★★
<b>BÖHLER W302</b> <b>ISOBLOC</b> <sup>®</sup>	★★★	★★★★	★★★	★★★★★
<b>BÖHLER W302</b> <b>ISODISC</b> <sup>®</sup>	★★★	★★★	★★★	★★★★★
<b>BÖHLER W303</b> <b>ISODISC</b> <sup>®</sup>	★★★★	★★★	★★★★★	★★★★★
<b>BÖHLER W350</b> <b>ISOBLOC</b> <sup>®</sup>	★★★	★★★★★	★★★	★★★★★
<b>BÖHLER W360</b> <b>ISOBLOC</b> <sup>®</sup>	★★★★★	★★★★	★★★★★	★★★★★
<b>BÖHLER W403</b> <b>VMR</b> <sup>®</sup>	★★★★	★★★★	★★★★	★★★★

**Physical Properties at 20°C / 68°F**

**Thermal Expansions**

Temperature (°C / °F)						
Thermal expansion (10 <sup>-6</sup> m/(m.K) / 10 <sup>-6</sup> inch/(inch.F))						

For more information see [www.voestalpine.com/boehler-edelstahl](http://www.voestalpine.com/boehler-edelstahl)