

## Bohler-Uddeholm BÖHLER K340 ISODUR® Premium Cold Work Steel

Category : Metal , Ferrous Metal , Alloy Steel , Tool Steel , Cold Work Steel

### Material Notes:

BÖHLER K340 ISODUR is a universal cold work tool steel with which you'll be making money and just when blanking coins, but also when: blanking, cutting, cold rolling, extruding, deep drawing and bending. In applications where materials with good wear resistance and compressive strength coupled with excellent toughness are required, BÖHLER K340 ISODUR has proved itself to be the all-rounder among tool steels. BÖHLER K340 ISODUR® is characterized by: 8 % Cr-steel with a modified chemical composition High toughness and outstanding compressive strength Excellent adhesive wear resistance thanks to special alloy additions High abrasive wear resistance Very good resistance to tempering Secondary-hardening cold work tool steel with good dimensional stability Outstanding EDM machinability Very well suited to salt-bath, gas and plasma nitriding Can be PVD coated well Well suited to vacuum hardening Thanks to the chemical composition and the manufacturing process, this steel has finer and more evenly distributed carbides than ledeburitic 12% Cr-steels (AISI D2) and conventional 8% Cr-steels. This gives the steel its improved toughness properties. Application fields: forming and punching tools e.g. dies and punches cold working tools e.g. tools for deep drawing or extrusion coining tools bending tools thread rolling tools industrial knives machine components (e.g. guide rails)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bohler-Uddeholm-BHLER-K340-ISODUR-Premium-Cold-Work-Steel.php](http://www.lookpolymers.com/polymer_Bohler-Uddeholm-BHLER-K340-ISODUR-Premium-Cold-Work-Steel.php)

Physical Properties	Metric	English	Comments
Density	7.67 g/cc	0.277 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	57 - 63	57 - 63	tempering temp 1080 - 1020°F
Modulus of Elasticity	20.6 GPa	2990 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.2 µm/m-°C	6.22 µin/in-°F	
	@Temperature 20.0 - 98.9 °C	@Temperature 68.0 - 210 °F	
	11.8 µm/m-°C	6.55 µin/in-°F	
	@Temperature 20.0 - 199 °C	@Temperature 68.0 - 390 °F	
	12.3 µm/m-°C	6.83 µin/in-°F	
	@Temperature 20.0 - 299 °C	@Temperature 68.0 - 570 °F	
	12.7 µm/m-°C	7.05 µin/in-°F	
	@Temperature 20.0 - 399 °C	@Temperature 68.0 - 750 °F	

Thermal Properties	Metric	English	Comments
	@Temperature 20.0 - 499 °C	@Temperature 68.0 - 930 °F	
	13.1 µm/m-°C	7.28 µin/in-°F	
	@Temperature 20.0 - 599 °C	@Temperature 68.0 - 1110 °F	
	13.1 µm/m-°C	7.28 µin/in-°F	
	@Temperature 20.0 - 699 °C	@Temperature 68.0 - 1290 °F	
Specific Heat Capacity	0.460 J/g-°C	0.110 BTU/lb-°F	
Thermal Conductivity	17.8 W/m-K	124 BTU-in/hr-ft²-°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.1 %	1.1 %	
Chromium, Cr	8.3 %	8.3 %	
Manganese, Mn	0.40 %	0.40 %	
Molybdenum, Mo	2.1 %	2.1 %	
Silicon, Si	0.90 %	0.90 %	
Vanadium, V	0.50 %	0.50 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000640 ohm-cm	0.0000640 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

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