

Bohler-Uddeholm BÖHLER S290 MICROCLEAN® High Speed Steel

Category : Metal , Ferrous Metal , Tool Steel

Material Notes:

Description: High speed steel produced by powder-metallurgy methods with highest red hardness, compressive strength and wear resistance. The PM technology imparts to the material also excellent toughness and machinability properties. Applications: Heavy-duty machining tools-Not only for the machining of steels but also for nonferrous metals such as nickel-base and titanium alloys. Tools used under extreme compressive stresses-e.g... precision blanking tools for high-strength materials (shaping punches and dies)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bohler-Uddeholm-BHLER-S290-MICROCLEAN-High-Speed-Steel.php

Physical Properties	Metric	English	Comments
Density	8.30 g/cc	0.300 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 350	<= 350	
Modulus of Elasticity	242 GPa	35100 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	9.60 µm/m-°C	5.33 µin/in-°F	
	@Temperature 100 °C	@Temperature 212 °F	
	10.0 µm/m-°C	5.56 µin/in-°F	
	@Temperature 200 °C	@Temperature 392 °F	
	10.3 µm/m-°C	5.72 µin/in-°F	
	@Temperature 300 °C	@Temperature 572 °F	
	10.6 µm/m-°C	5.89 µin/in-°F	
	@Temperature 400 °C	@Temperature 752 °F	
Specific Heat Capacity	10.9 µm/m-°C	6.06 µin/in-°F	
	@Temperature 500 °C	@Temperature 932 °F	
	11.2 µm/m-°C	6.22 µin/in-°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	11.6 µm/m-°C	6.44 µin/in-°F	
	@Temperature 700 °C	@Temperature 1290 °F	

Thermal Conductivity Thermal Properties	19.0 W/m-K Metric	132 BTU-in/hr-ft ² -°F English	Comments
--	----------------------	--	----------

Component Elements Properties	Metric	English	Comments
Carbon, C	2.0 %	2.0 %	
Chromium, Cr	3.8 %	3.8 %	
Cobalt, Co	11 %	11 %	
Iron, Fe	60.4 %	60.4 %	As remainder
Manganese, Mn	0.30 %	0.30 %	
Molybdenum, Mo	2.5 %	2.5 %	
Silicon, Si	0.50 %	0.50 %	
Tungsten, W	14.3 %	14.3 %	
Vanadium, V	5.1 %	5.1 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000560 ohm-cm	0.0000560 ohm-cm	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China