

Bohler-Uddeholm BÖHLER S692/S693 MICROCLEAN® PM M4 High Speed Steel

Category : Metal , Ferrous Metal , Tool Steel

Material Notes:

Description: S692/S693 MICROCLEAN are high-sulfur and low sulfur versions of high-carbon PM M4 high speed steel that is produced using state-of-the-art "Generation 3" powder processing technology. This technology provides an exceptional degree of homogeneity and refinement of the primary carbide size distribution in the HIP-consolidated and forged or rolled product compared to conventionally ingot-cast tool steels. Applications: Premium Cutting Tools: Milling cutters Broaches and shaper cutters Taps and reamers Circular and dovetail form tools Cold Work Tooling: Progressive dies Fine blanking Cold heading Roll forming Powder pressing Slitter knives Color Code: S692 MICROCLEAN: Light Blue/Pink S693 MICROCLEAN: Black/Light Blue

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bohler-Uddeholm-BHLER-S692S693-MICROCLEAN-PM-M4-High-Speed-Steel.php

Physical Properties	Metric	English	Comments
Density	7.90 g/cc	0.285 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 280	<= 280	Annealed(Delivered Condition)
Modulus of Elasticity	226 GPa	32800 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.5 µm/m-°C	6.39 µin/in-°F	
	@Temperature 100 °C	@Temperature 212 °F	
	11.7 µm/m-°C	6.50 µin/in-°F	
	@Temperature 200 °C	@Temperature 392 °F	
	12.2 µm/m-°C	6.78 µin/in-°F	
	@Temperature 300 °C	@Temperature 572 °F	
	12.4 µm/m-°C	6.89 µin/in-°F	
	@Temperature 400 °C	@Temperature 752 °F	
	12.7 µm/m-°C	7.06 µin/in-°F	
	@Temperature 500 °C	@Temperature 932 °F	
	12.9 µm/m-°C	7.17 µin/in-°F	
	@Temperature 700 °C	@Temperature 1290 °F	
	13.0 µm/m-°C	7.22 µin/in-°F	
	@Temperature 600 °C	@Temperature 1110 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	20.0 W/m-K	139 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.45 %	1.45 %	
Chromium, Cr	4.0 %	4.0 %	
Iron, Fe	79.67 - 79.7 %	79.67 - 79.7 %	
Molybdenum, Mo	5.25 %	5.25 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	
Tungsten, W	5.6 %	5.6 %	
Vanadium, V	4.0 %	4.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000530 ohm-cm	0.0000530 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