

## Bohler-Uddeholm BÖHLER S400(M7) High Speed Steel

Category : Metal , Ferrous Metal , Tool Steel

### Material Notes:

Description: High alloyed molybdenum high speed steel with good resistance and high toughness. Applications: Taps, twist drills, reamers, milling tools, broaches tools, cold extrusion dies. Standards: DIN/EN 1.3348 HS2-9-2, AISI M7, UNS T11307, JIS SKH58

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bohler-Uddeholm-BHLER-S400M7-High-Speed-Steel.php](http://www.lookpolymers.com/polymer_Bohler-Uddeholm-BHLER-S400M7-High-Speed-Steel.php)

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

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	217 GPa	31500 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 µm/m-°C	6.11 µin/in-°F	
	@Temperature 100 °C	@Temperature 212 °F	
	11.5 µm/m-°C	6.39 µin/in-°F	
	@Temperature 200 °C	@Temperature 392 °F	
	11.9 µm/m-°C	6.61 µin/in-°F	
	@Temperature 300 °C	@Temperature 572 °F	
	12.3 µm/m-°C	6.83 µin/in-°F	
	@Temperature 400 °C	@Temperature 752 °F	
	12.4 µm/m-°C	6.89 µin/in-°F	
	@Temperature 500 °C	@Temperature 932 °F	
	12.5 µm/m-°C	6.94 µin/in-°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	12.5 µm/m-°C	6.94 µin/in-°F	
	@Temperature 700 °C	@Temperature 1290 °F	
Specific Heat Capacity	0.460 J/g-°C	0.110 BTU/lb-°F	
Thermal Conductivity	19.0 W/m-K	132 BTU-in/hr-ft <sup>2</sup> -°F	

Component Elements Properties	Metric	English	Comments
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Carbon C Component Elements Properties	1.02 % Metric	1.02 % English	Comments
Chromium, Cr	3.8 %	3.8 %	
Iron, Fe	82.18 %	82.18 %	As remainder
Manganese, Mn	0.30 %	0.30 %	
Molybdenum, Mo	8.6 %	8.6 %	
Silicon, Si	0.40 %	0.40 %	
Tungsten, W	1.8 %	1.8 %	
Vanadium, V	1.9 %	1.9 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000650 ohm-cm	0.0000650 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

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