

Bohler-Uddeholm BÖHLER S401(M1) High Speed Steel

Category : Metal , Ferrous Metal , Tool Steel

Material Notes:

Description: Molybdenum high speed steel with high toughness and good cutting ability. Applications: Taps, twist drills, reamers, milling tools, broaches tools Standards: DIN/EN 1.3346 HS2-91, AISI M1, UNS T11301, BS ~BM1

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bohler-Uddeholm-BHLER-S401M1-High-Speed-Steel.php

Physical Properties	Metric	English	Comments
Density	8.00 g/cc	0.289 lb/in ³	

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

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.11 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 100 °C	@Temperature 212 °F	
	11.5 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.39 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 200 °C	@Temperature 392 °F	
	11.9 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.61 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 300 °C	@Temperature 572 °F	
	12.3 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.83 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 400 °C	@Temperature 752 °F	
	12.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.89 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 500 °C	@Temperature 932 °F	
	12.5 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.94 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 600 °C	@Temperature 1110 °F	
	12.5 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.94 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@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 ² -°F	

Component Elements Properties	Metric	English	Comments
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Carbon C Component Elements Properties	0.84 % Metric	0.84 % English	Comments
Chromium, Cr	3.8 %	3.8 %	
Iron, Fe	83.06 %	83.06 %	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	1.2 %	1.2 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000600 ohm-cm	0.0000600 ohm-cm	

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