

Bohler-Uddeholm BÖHLER S601 (M2 Modified) High Speed Steel For Cold Work Applications

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

Material Notes:

Properties: Tungsten-molybdenum high speed steel with excellent toughness and cutting properties, for a wide variety of uses. Applications: Taps, twist drills, reamers, broaching tools, metal saws, milling tools of all types, wood working tools, cold work tools.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bohler-Uddeholm-BHLER-S601-M2-Modified-High-Speed-Steel-For-Cold-Work-Applications.php

Physical Properties	Metric	English	Comments
Density	8.10 g/cc	0.293 lb/in ³	

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

Thermal Properties	Metric	English	Comments
CTE, linear	11.5 µm/m-°C	6.39 µin/in-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
	11.7 µm/m-°C	6.50 µin/in-°F	
	@Temperature 20.0 - 200 °C	@Temperature 68.0 - 392 °F	
	12.2 µm/m-°C	6.78 µin/in-°F	
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
	12.4 µm/m-°C	6.89 µin/in-°F	
	@Temperature 20.0 - 400 °C	@Temperature 68.0 - 752 °F	
	12.7 µm/m-°C	7.06 µin/in-°F	
	@Temperature 20.0 - 500 °C	@Temperature 68.0 - 932 °F	
	12.9 µm/m-°C	7.17 µin/in-°F	
	@Temperature 20.0 - 700 °C	@Temperature 68.0 - 1290 °F	
	13.0 µm/m-°C	7.22 µin/in-°F	
	@Temperature 20.0 - 600 °C	@Temperature 68.0 - 1110 °F	

Specific Heat Capacity Thermal Properties	0.460 J/g-°C Metric	0.110 BTU/lb-°F English	Comments
Thermal Conductivity	19.0 W/m-K	132 BTU-in/hr-ft²-°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.85 %	0.85 %	
Chromium, Cr	4.1 %	4.1 %	
Manganese, Mn	0.25 %	0.25 %	
Molybdenum, Mo	5.0 %	5.0 %	
Silicon, Si	0.35 %	0.35 %	
Tungsten, W	6.4 %	6.4 %	
Vanadium, V	1.9 %	1.9 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000540 ohm-cm	0.0000540 ohm-cm	

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