

# SUPREME STEEL INDUSTRIES



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

Categories: [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.

**Vendors:** No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

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### Physical Properties

	Metric	English	Comments
Density	8.10 g/cc	0.293 lb/in <sup>3</sup>	

### Mechanical Properties

	Metric	English	Comments
Modulus of Elasticity	217 GPa	31500 ksi	

### Electrical Properties

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

### Thermal Properties

	Metric	English	Comments
CTE, linear	11.5 µm/m-°C @Temperature 20.0 - 100 °C	6.39 µin/in-°F @Temperature 68.0 - 212 °F	
	11.7 µm/m-°C @Temperature 20.0 - 200 °C	6.50 µin/in-°F @Temperature 68.0 - 392 °F	
	12.2 µm/m-°C @Temperature 20.0 - 300 °C	6.78 µin/in-°F @Temperature 68.0 - 572 °F	
	12.4 µm/m-°C @Temperature 20.0 - 400 °C	6.89 µin/in-°F @Temperature 68.0 - 752 °F	
	12.7 µm/m-°C @Temperature 20.0 - 500 °C	7.06 µin/in-°F @Temperature 68.0 - 932 °F	
	12.9 µm/m-°C @Temperature 20.0 - 700 °C	7.17 µin/in-°F @Temperature 68.0 - 1290 °F	
	13.0 µm/m-°C @Temperature 20.0 - 600 °C	7.22 µin/in-°F @Temperature 68.0 - 1110 °F	
Specific Heat Capacity	0.480 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
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 %	

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