

## CMW® ELKONITE® TC5 Tungsten Carbide Copper material

Category : Metal , Metal Matrix Composite , Nonferrous Metal , Copper Alloy , Tungsten Alloy

### Material Notes:

For wiping and arcing electrical contacts and light duty welding tips. Information provided by CMW Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMW-ELKONITE-TC5-Tungsten-Carbide-Copper-material.php](http://www.lookpolymers.com/polymer_CMW-ELKONITE-TC5-Tungsten-Carbide-Copper-material.php)

Physical Properties	Metric	English	Comments
Density	11.26 g/cc	0.4068 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	94	94	
Flexural Modulus	1.10 GPa	160 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	290 W/m-K	2010 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	>= 980 °C	>= 1800 °F	
Solidus	980 °C	1800 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	50 %	50 %	
WC	50 %	50 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000383 ohm-cm	0.00000383 ohm-cm	(45% IACS)

## Contact Songhan Plastic Technology Co.,Ltd.

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