

## CMW® ELKONITE® 50W3 Tungsten Copper material ASTM B702

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

**Material Notes:**

For vacuum switch contacts. Information provided by CMW Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMW-ELKONITE-50W3-Tungsten-Copper-material-ASTM-B702.php](http://www.lookpolymers.com/polymer_CMW-ELKONITE-50W3-Tungsten-Copper-material-ASTM-B702.php)

Physical Properties	Metric	English	Comments
Density	17.17 g/cc	0.6203 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	27	27	
Flexural Modulus	1.24 GPa	180 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	115 W/m-K	798 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	1080 - 3410 °C	1980 - 6170 °F	
Solidus	1080 °C	1980 °F	
Liquidus	3410 °C	6170 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	10 %	10 %	
Tungsten, W	90 %	90 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000493 ohm-cm	0.00000493 ohm-cm	(35% IACS)

### Contact Songhan Plastic Technology Co.,Ltd.

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