

## CMW® ELKONITE® G13 Tungsten Carbide Silver contact material ASTM 663, Class B, infiltrated

Category : Metal , Metal Matrix Composite , Nonferrous Metal , Precious Metal , Silver Alloy , Tungsten Alloy

### Material Notes:

For arcing and current carrying electrical contacts resistant to welding and sticking. Information provided by CMW Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMW-ELKONITE-G13-Tungsten-Carbide-Silver-contact-material-ASTM-663-Class-B-infiltrated.php](http://www.lookpolymers.com/polymer_CMW-ELKONITE-G13-Tungsten-Carbide-Silver-contact-material-ASTM-663-Class-B-infiltrated.php)

Physical Properties	Metric	English	Comments
Density	12.27 g/cc	0.4433 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	91	91	
Flexural Modulus	0.655 GPa	95.0 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	175 W/m-K	1210 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
Silver, Ag	50 %	50 %	
WC	50 %	50 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000367 ohm-cm	0.00000367 ohm-cm	(47% IACS)

## Contact Songhan Plastic Technology Co.,Ltd.

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