

## CMW® ELKONITE® 50S Infiltrated Tungsten Silver contact material ASTM B631, Class C, infiltrated

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

### Material Notes:

For arcing and current carrying electrical contacts. Information provided by CMW Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMW-ELKONITE-50S-Infiltrated-Tungsten-Silver-contact-material-ASTM-B631-Class-C-infiltrated.php](http://www.lookpolymers.com/polymer_CMW-ELKONITE-50S-Infiltrated-Tungsten-Silver-contact-material-ASTM-B631-Class-C-infiltrated.php)

Physical Properties	Metric	English	Comments
Density	13.48 g/cc	0.4870 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	55	55	
Flexural Modulus	0.552 GPa	80.1 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	190 W/m-K	1320 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	980 - 3410 °C	1800 - 6170 °F	
Solidus	980 °C	1800 °F	
Liquidus	3410 °C	6170 °F	

Component Elements Properties	Metric	English	Comments
Silver, Ag	50 %	50 %	
Tungsten, W	50 %	50 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000265 ohm-cm	0.00000265 ohm-cm	(65% IACS)

## Contact Songhan Plastic Technology Co.,Ltd.

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