

**CMW® ELKONITE® 45S Infiltrated Tungsten Silver contact material ASTM B631**

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-45S-Infiltrated-Tungsten-Silver-contact-material-ASTM-B631.php](http://www.lookpolymers.com/polymer_CMW-ELKONITE-45S-Infiltrated-Tungsten-Silver-contact-material-ASTM-B631.php)

Physical Properties	Metric	English	Comments
Density	14.01 g/cc	0.5061 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	65	65	
Flexural Modulus	0.669 GPa	97.0 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	185 W/m-K	1280 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	45 %	45 %	
Tungsten, W	55 %	55 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000278 ohm-cm	0.00000278 ohm-cm	(62% IACS)

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