

CMW® ELKONITE® 3042 Silver Tungsten Carbide contact material ASTM B663

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-3042-Silver-Tungsten-Carbide-contact-material-ASTM-B663.php

Physical Properties	Metric	English	Comments
Density	11.97 g/cc	0.4324 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	52	52	
Flexural Modulus	0.552 GPa	80.1 ksi	

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

Component Elements Properties	Metric	English	Comments
Silver, Ag	58 %	58 %	
WC	42 %	42 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000322 ohm-cm	0.00000322 ohm-cm	(52% IACS)

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