

CMW® ELKONITE® 5W3 Tungsten Copper material ASTM B702, Class C, infiltrated

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

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONITE-5W3-Tungsten-Copper-material-ASTM-B702-Class-C-infiltrated.php

Physical Properties	Metric	English	Comments
Density	14.18 g/cc	0.5123 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	95	95	
Flexural Modulus	0.965 GPa	140 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	160 W/m-K	1110 BTU-in/hr-ft ² -°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	30 %	30 %	
Tungsten, W	70 %	70 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000359 ohm-cm	0.00000359 ohm-cm	(48% IACS)

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