

CMW® ELKONITE® 40W3 Infiltrated Tungsten Copper material ASTM B702

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

Material Notes:

For vacuum switch contacts, low expansion structural members. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONITE-40W3-Infiltrated-Tungsten-Copper-material-ASTM-B702.php

Physical Properties	Metric	English	Comments
Density	16.64 g/cc	0.6012 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	25	25	
Flexural Modulus	1.14 GPa	165 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	135 W/m-K	937 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	13 %	13 %	
Tungsten, W	87 %	87 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000466 ohm-cm	0.00000466 ohm-cm	(37% IACS)

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