

CMW® ELKONITE® 1W3 Copper Tungsten RWMA Class 10

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

Material Notes:

Uses: Arcing and current carrying electrical contacts. Resistance/projection welding electrodes. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONITE-1W3-Copper-Tungsten-RWMA-Class-10.php

Physical Properties	Metric	English	Comments
Density	12.5 g/cc	0.452 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	77	77	
Flexural Modulus	0.758 GPa	110 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	150 W/m-K	1040 BTU-in/hr-ft ² -°F	
Melting Point	1085 - 3410 °C	1985 - 6170 °F	
Solidus	1085 °C	1985 °F	
Liquidus	3410 °C	6170 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	45 %	45 %	
Tungsten, W	55 %	55 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000325 ohm-cm	0.00000325 ohm-cm	(53% IACS)

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