

CMW® ELKONITE® 10W3 Copper Tungsten RWMA Class 11

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

Material Notes:

Electrical contacts resistant to arcing, power transformer switches, resistance / projection welding electrodes, and EDM electrodes
Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONITE-10W3-Copper-Tungsten-RWMA-Class-11.php

Physical Properties	Metric	English	Comments
Density	14.84 g/cc	0.5361 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	98	98	
Flexural Modulus	1.03 GPa	149 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	220 W/m-K	1530 BTU-in/hr-ft²-°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	25 %	25 %	
Tungsten, W	75 %	75 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000383 ohm-cm	0.00000383 ohm-cm	(45% IACS)

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