

## CMW® ELKONITE® 30W3 Infiltrated Copper Tungsten contact material ASTM B702, Class E, infiltrated, RWMA Class 12

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

### Material Notes:

For projection welding dies, die facing, and resistance welding electrodes. Also used for low expansion structural members. Information provided by CMW Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMW-ELKONITE-30W3-Infiltrated-Copper-Tungsten-contact-material-ASTM-B702-Class-E-infiltrated-RWMA-Class-12.php](http://www.lookpolymers.com/polymer_CMW-ELKONITE-30W3-Infiltrated-Copper-Tungsten-contact-material-ASTM-B702-Class-E-infiltrated-RWMA-Class-12.php)

Physical Properties	Metric	English	Comments
Density	15.56 g/cc	0.5621 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	103	103	
Flexural Modulus	1.17 GPa	170 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	145 W/m-K	1010 BTU-in/hr-ft <sup>2</sup> -°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	20 %	20 %	
Tungsten, W	80 %	80 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000421 ohm-cm	0.00000421 ohm-cm	(41% IACS)

## Contact Songhan Plastic Technology Co.,Ltd.

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