

## CMW® ELKONITE® TC20 Tungsten Carbide Copper material

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

**Material Notes:**

For electroforging and electrical upsetting dies. Information provided by CMW Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMW-ELKONITE-TC20-Tungsten-Carbide-Copper-material.php](http://www.lookpolymers.com/polymer_CMW-ELKONITE-TC20-Tungsten-Carbide-Copper-material.php)

Physical Properties	Metric	English	Comments
Density	12.65 g/cc	0.4570 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	37	37	
Flexural Modulus	1.38 GPa	200 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	240 W/m-K	1670 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	>= 980 °C	>= 1800 °F	
Solidus	980 °C	1800 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	30 %	30 %	
WC	70 %	70 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000575 ohm-cm	0.00000575 ohm-cm	(30% IACS)

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