

CMW® ELKONITE® TC53 Heat Treatable 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-TC53-Heat-Treatable-Tungsten-Carbide-Copper-material.php

Physical Properties	Metric	English	Comments
Density	12.6 g/cc	0.455 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	47	47	
Flexural Modulus	1.52 GPa	220 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	120 W/m-K	833 BTU-in/hr-ft ² -°F	
Melting Point	>= 980 °C	>= 1800 °F	
Solidus	980 °C	1800 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	28.22 %	28.22 %	
Nickel, Ni	0.82 %	0.82 %	
Silicon, Si	0.24 %	0.24 %	
WC	70.12 %	70.12 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000985 ohm-cm	0.00000985 ohm-cm	(18% IACS)

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