

CMW® ELKONITE® 2140C Copper Tungsten Nickel material

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

Material Notes:

For structural rotors.Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONITE-2140C-Copper-Tungsten-Nickel-material.php

Physical Properties	Metric	English	Comments
Density	10.5 g/cc	0.379 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	32	32	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	70.0 W/m-K	486 BTU-in/hr-ft ² -°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	58 %	58 %	
Nickel, Ni	2.0 %	2.0 %	
Tungsten, W	40 %	40 %	

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

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