

CMW® ELKONITE® 20S Infiltrated Tungsten Silver Contact Material ASTM B531, Class A, infiltrated

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

Material Notes:

For electrical contacts resistant to arcing and welding in circuit breakers, etc. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONITE-20S-Infiltrated-Tungsten-Silver-Contact-Material-ASTM-B531-Class-A-infiltrated.php

Physical Properties	Metric	English	Comments
Density	15.72 g/cc	0.5679 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	90	90	
Flexural Modulus	0.896 GPa	130 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	160 W/m-K	1110 BTU-in/hr-ft ² -°F	
Melting Point	980 - 3410 °C	1800 - 6170 °F	
Solidus	980 °C	1800 °F	
Liquidus	3410 °C	6170 °F	

Component Elements Properties	Metric	English	Comments
Silver, Ag	27 %	27 %	
Tungsten, W	73 %	73 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000352 ohm-cm	0.00000352 ohm-cm	(49% IACS)

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