

CMW® ELKONITE® 35S Silver Tungsten contact material ASTM B631, Class B, infiltrated

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

Material Notes:

For arcing and current carrying electrical contacts; household and power circuit breakers. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONITE-35S-Silver-Tungsten-contact-material-ASTM-B631-Class-B-infiltrated.php

Physical Properties	Metric	English	Comments
Density	14.77 g/cc	0.5336 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	78	78	
Flexural Modulus	0.827 GPa	120 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	170 W/m-K	1180 BTU-in/hr-ft²-°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	50 %	50 %	
Tungsten, W	50 %	50 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000313 ohm-cm	0.00000313 ohm-cm	(55% IACS)

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