

## CMW® ELKONITE® 10W53 Heat Treatable Copper Tungsten

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

### Material Notes:

Uses: Resistance / projection welding electrodes  
Information provided by CMW Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMW-ELKONITE-10W53-Heat-Treatable-Copper-Tungsten.php](http://www.lookpolymers.com/polymer_CMW-ELKONITE-10W53-Heat-Treatable-Copper-Tungsten.php)

Physical Properties	Metric	English	Comments
Density	14.79 g/cc	0.5343 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	109	109	
Flexural Modulus	1.38 GPa	200 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	150 W/m-K	1040 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	<= 3410 °C	<= 6170 °F	
Liquidus	3410 °C	6170 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	24.11 %	24.11 %	
Nickel, Ni	0.69 %	0.69 %	
Silicon, Si	0.20 %	0.20 %	
Tungsten, W	75 %	75 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000616 ohm-cm	0.00000616 ohm-cm	(28% IACS)

## Contact Songhan Plastic Technology Co.,Ltd.

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