

Ametek Tungsten-Copper Composites AWC 8020

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

Material Notes:

Information supplied by Ametek Specialty Metal Products. The material is available as finished parts with the following maximum dimensions: Width: 6 inches (152 mm) Thickness: 0.150 inches (3.8 mm) Length: 8 inches (203 mm) These composites of tungsten and copper have many applications in electronic devices. The excellent thermal conductivity and low thermal expansion makes them ideal for: chip mounting, heat sinks, circuit board cores, lids or covers, or thermal spreaders. The material can be machined into shapes and readily plated if required. AMETEK's wrought powder metallurgy composites have superior through-thickness thermal conductivity versus other products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ametek-Tungsten-Copper-Composites-AWC-8020.php

Physical Properties	Metric	English	Comments
Density	15.59 g/cc	0.5632 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	8.21 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	4.56 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 30.0 - 150 $^{\circ}\text{C}$	@Temperature 86.0 - 302 $^{\circ}\text{F}$	
	8.60 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	4.78 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 30.0 - 400 $^{\circ}\text{C}$	@Temperature 86.0 - 752 $^{\circ}\text{F}$	
	8.63 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	4.79 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 30.0 - 800 $^{\circ}\text{C}$	@Temperature 86.0 - 1470 $^{\circ}\text{F}$	
Thermal Conductivity	195 W/m-K	1350 BTU-in/hr-ft ² - $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	20 %	20 %	
Tungsten, W	80 %	80 %	

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