

MarkeTech W80Cu Tungsten/Copper Heat Sink Material

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

Material Notes:

WCu composites are made by vacuum infiltration of uniform controlled porous blocks of tungsten with molten copper. This results in a material with an interconnected Cu matrix that has high thermal conductivity in all axes, low CTE, and good electrical conductivity. These properties lead to applications in demanding uses such as high voltage arc contacts, vacuum contacts, electrodes for resistance welding and spark erosion, heat sinks and spreaders, microwave carriers, hermetic package bases and housings, ceramic substrate carriers, GaAs and silicon device and laser diode mounts. Data provided by the supplier, MarkeTech International.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-W80Cu-TungstenCopper-Heat-Sink-Material.php

Physical Properties	Metric	English	Comments
Density	15.4 - 15.8 g/cc	0.556 - 0.571 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	7.80 - 8.50 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.33 - 4.72 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 100 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 212 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	200 - 220 W/m-K	1390 - 1530 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	

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

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