

Plansee W-10Cu Tungsten-Copper Composite

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

Material Notes:

This composite material is composed of a porous tungsten matrix which is infiltrated with copper. Characteristics: Very resistant to arc erosion Good electrical conductivity High thermal conductivity Low thermal expansion. Typical Applications: High-voltage circuit breakers Erosion electrodes Radar technology - base plates and heat spreaders Opto electronics High frequency electronics Information provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-W-10Cu-Tungsten-Copper-Composite.php

Physical Properties	Metric	English	Comments
Specific Gravity	17.1 g/cc	17.1 g/cc	

Thermal Properties	Metric	English	Comments
CTE, linear	6.40 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	3.56 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Thermal Conductivity	195 W/m-K	1350 BTU-in/hr-ft ² -°F	greater than pure W

Component Elements Properties	Metric	English	Comments
Copper, Cu	10 %	10 %	
Tungsten, W	90 %	90 %	

Descriptive Properties	Value	Comments
Ductility	much greater than pure W	
Machinability/Workability	much greater than pure W	

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