

Plansee MoCu15 Molybdenum-Copper

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

Material Notes:

Characteristics:High thermal conductivityLow thermal expansionLow densityApplications:Electronic components - passive cooling elementsAutomotive industry - carrier plates for IGBT modules in electric drivesInformation provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-MoCu15-Molybdenum-Copper.php

Physical Properties	Metric	English	Comments
Specific Gravity	9.90 g/cc	9.90 g/cc	

Thermal Properties	Metric	English	Comments
CTE, linear	6.70 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	3.72 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
Thermal Conductivity	170 W/m-K	1180 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	15 %	15 %	
Molybdenum, Mo	85 %	85 %	Balance

Descriptive Properties	Value	Comments
Creep Resistance	less than pure Mo	
Ductility	greater than pure Mo	
Recrystallization Temperature	less than pure Mo	
Stability at High Temperature	less than pure Mo	
Stability at Room Temperature	less than pure Mo	
Weldability	less than pure Mo	

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