

ATI Wah Chang Infiltrated Tungsten (Copper)

Category : Metal , Nonferrous Metal , Tungsten Alloy

Material Notes:

Tungsten base infiltrated metal with Copper as infiltrant has been widely used in industry for years. It has proven highly advantageous because of its excellent machinability. Roughly 90% Tungsten and 10% Copper. Applications: The major uses include missile vector control vanes, nozzle and throat materials, missile plume deflector shields, electrical contacts, resistance welding contacts, and porous emitters. Information provided by ATI Wah Chang

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Wah-Chang-Infiltrated-Tungsten-Copper.php

Physical Properties	Metric	English	Comments
Density	17.0 g/cc	0.614 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	275	275	10 kg
Tensile Strength, Ultimate	550.0 MPa	79770 psi	
Modulus of Elasticity	310 GPa	45000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	6.61 $\mu\text{m}/\text{m}\cdot\text{°C}$	3.67 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 400 °C	@Temperature 68.0 - 752 °F	
Thermal Conductivity	193.8 W/m-K	1345 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	10.9 %	10.9 %	
Tungsten, W	89.1 %	89.1 %	

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