

## Hogen Duralloy H5TC 50 Tungsten Carbide/50 Copper PM Metal Composite

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

### Material Notes:

Hogen Duralloy refractory alloys are manufactured by pressing, sintering, and infiltrating tungsten with copper or silver. Typical Resistance Welding Applications: Used for light duty projection welding dies requiring low pressure. Another common use is tips on contact shoe facings used in high frequency continuous welding processes. Same general uses as Hogen H5W, but with higher wear resistance. Data provided by Hogen Industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hogen-Duralloy-H5TC-50-Tungsten-Carbide50-Copper-PM-Metal-Composite.php](http://www.lookpolymers.com/polymer_Hogen-Duralloy-H5TC-50-Tungsten-Carbide50-Copper-PM-Metal-Composite.php)

Physical Properties	Metric	English	Comments
Density	>= 11.0 g/cc	>= 0.397 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	90	90	
Tensile Strength, Ultimate	483 MPa	70100 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	6.78 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	50 %	50 %	
WC	50 %	50 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000370 ohm-cm	0.00000370 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

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