

Hogen Duralloy H10TC 56 Tungsten Carbide/44 Copper PM Metal Composite

Category : Metal , Metal Matrix Composite , Nonferrous Metal , 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 heavy-duty or projection welding electrodes where the pressures involved are relatively high and for die facings in electro-forming and electro-forging applications. It is suitable as die material for electrical upsetting of non-ferrous metals and low carbon steel or for cross-wire welding of larger diameter wire and rod. Same general uses as Hogen H30W, but with higher wear resistance. Data provided by Hogen Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hogen-Duralloy-H10TC-56-Tungsten-Carbide44-Copper-PM-Metal-Composite.php

Physical Properties	Metric	English	Comments
Density	>= 11.3 g/cc	>= 0.408 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	95	95	
Tensile Strength, Ultimate	517 MPa	75000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.5 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	6.39 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	44 %	44 %	
WC	56 %	56 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000420 ohm-cm	0.00000420 ohm-cm	

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