

Hogen Duralloy H20TC 70 Tungsten Carbide/30 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: Extremely hard and wear resistant to meet the more demanding requirements of electrical upsetting and electro-forging. Data provided by Hogen Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hogen-Duralloy-H20TC-70-Tungsten-Carbide30-Copper-PM-Metal-Composite.php

Physical Properties	Metric	English	Comments
Density	>= 12.3 g/cc	>= 0.444 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	32	32	
Tensile Strength, Ultimate	586 MPa	85000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	9.80 Åµm/m-Å°C	5.44 Åµin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	30 %	30 %	
WC	70 %	70 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000570 ohm-cm	0.00000570 ohm-cm	

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