

Hogen Duralloy H20W 78 Tungsten/22 Copper PM Metal Composite

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

Material Notes:

RWMA Class 11 and 12. Hogen Duralloy refractory alloys are manufactured by pressing, sintering, and infiltrating tungsten with copper or silver. Typical Resistance Welding Applications: Class 12 material is specifically recommended 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. Data provided by Hogen Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hogen-Duralloy-H20W-78-Tungsten22-Copper-PM-Metal-Composite.php

Physical Properties	Metric	English	Comments
Density	>= 14.9 g/cc	>= 0.538 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	92	92	
Tensile Strength, Ultimate	648 MPa	94000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	9.30 Åµm/m-Å°C	5.17 Åµin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Specific Heat Capacity	0.194 J/g-Å°C	0.0464 BTU/lb-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Thermal Conductivity	184 W/m-K	1280 BTU-in/hr-ftÅ²-Å°F	
	@Temperature 20.0 - 400 Å°C	@Temperature 68.0 - 752 Å°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	22 %	22 %	
Tungsten, W	78 %	78 %	

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

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