

Hogen Duralloy H5W 70 Tungsten/30 Copper PM Metal Composite

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

Material Notes:

RWMA Class 10.Hogen Duralloy refractory alloys are manufactured by pressing, sintering, and infiltrating tungsten with copper or silver. Typical Resistance Welding Applications: Class 10 material is recommended as facings or inserts for projection welding electrodes and for flash and butt welding dies where high electrical conductivity is desirable and relatively high malleability is necessary. H5W is 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.Data provided by Hogen Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hogen-Duralloy-H5W-70-Tungsten30-Copper-PM-Metal-Composite.php

Physical Properties	Metric	English	Comments
Density	>= 14.0 g/cc	>= 0.506 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	85	85	
Tensile Strength, Ultimate	586 MPa	85000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	10.77 Åµm/m-Å°C	5.983 Åµin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Specific Heat Capacity	0.214 J/g-Å°C	0.0511 BTU/lb-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Thermal Conductivity	201 W/m-K	1390 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	30 %	30 %	
Tungsten, W	70 %	70 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000350 ohm-cm	0.00000350 ohm-cm	

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