

Mi-Tech Metals CW75 75 Tungsten/25 Copper PM Metal Composite

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

Material Notes:

RWMA Class 11.Mi-Tech refractory alloys are manufactured by pressing, sintering, and infiltrating tungsten with copper or silver. Typical Resistance Welding Applications: Class 11 Cu-W (a harder material than Class 10) is used for facings and inserts for flash and butt welding dies, projection welding electrodes, seam welding bearing inserts, facings for electro-forming and electro-forging dies. Often used for EDM electrodes for greater wear ratios.Mi-Tech Copper-Tungsten and Silver-Tungsten are manufactured as electrode materials for EDM (Electrical Discharge Machining), ECM (Electro Chemical Machining) and ECD (Electro Chemical Deburring).Mi-Tech materials are also manufactured by the powder metallurgy techniques of pressing, sintering and infiltrating tungsten with copper or silver. This assures a high performance electrode providing greater cutting stability, excellent machinability and reduced down time. For extremely close tolerance work, this product holds dimensions and will not break down due to porosity and other structural deficiencies sometimes found in other Copper-Tungsten electrode alloys.Mi-Tech Copper-Tungsten is well suited for machining carbide dies. Further more, it offers greater cutting stability in machining refractory metals and exotics.Tungsten alloys used for EDM and ECM applications are far superior when fine surface finishes, deep narrow slots or ribs and small precise holes are required. Tungsten alloys are preferred when matching extremely detailed sections. In the ECM process, Copper-Tungsten withstands erosive effects of short circuit malfunctions far better than other materials.Data provided by Mi-Tech Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mi-Tech-Metals-CW75-75-Tungsten25-Copper-PM-Metal-Composite.php

Physical Properties	Metric	English	Comments
Density	>= 14.5 g/cc	>= 0.524 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	90	90	
Tensile Strength, Ultimate	621 MPa	90100 psi	

Component Elements Properties	Metric	English	Comments
Copper, Cu	25 %	25 %	
Tungsten, W	75 %	75 %	

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

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