

CMW® ELKONIUM 72 gold based alloy

Category : Metal , Nonferrous Metal , Precious Metal , Gold Alloy

Material Notes:

Pure gold has complete resistance to atmospheric tarnish and oxidation. It does not contribute to polymer formations like platinum and palladium alloys. Wrought gold metal is very soft and prone to welding and has very few contact applications. Electroplated coatings of gold on silver and other base metals are used in dry circuit application and to provide long shelf life reliability. Gold is alloyed with other metals to improve hardness, contact performance, and reduce cost. ELKONIUM® 72 is the trademark used by CMW for a gold-silver-platinum alloy that is harder and more resistant to mechanical wear than ELKONIUM 70 alloy. It is completely resistant to atmospheric corrosion at normal temperatures, and is widely used in telephone relays and other sensitive switching devices. It offers good wear resistant and a low contact resistance when used as a brush contact and operated against other noble metal surfaces in sliding contact applications. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONIUM-72-gold-based-alloy.php

Physical Properties	Metric	English	Comments
Density	16.0 g/cc	0.578 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 15T	70	70	annealed
	84	84	cold worked
Tensile Strength, Ultimate	276 MPa	40000 psi	annealed
	414 MPa	60000 psi	cold worked

Component Elements Properties	Metric	English	Comments
Gold, Au	69 %	69 %	
Platinum, Pt	6.0 %	6.0 %	
Silver, Ag	25 %	25 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000156 ohm-cm	0.0000156 ohm-cm	11 % IACS

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