

CMW® ELKONIUM 46 Silver Alloy

Category : Metal , Nonferrous Metal , Precious Metal , Silver Alloy

Material Notes:

The alloying of small amounts of one of the precious metals, platinum, palladium or gold with silver increases the hardness, and reduces the metal transfer tendency. These alloys maintain a low contact resistance during operation, as they are not susceptible to oxidation. They are susceptible to sulfide tarnishing however, to about the same degree as fine silver. They are suitable for contacts in sensitive devices in both AC and DC circuits. ELKONIUM® 46, a silver palladium alloy, has good electrical conductivity and maintains a low contact resistance. It minimizes the tendency to stick in devices that have low contact force and operates in AC circuits having inrush currents. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONIUM-46-Silver-Alloy.php

Physical Properties	Metric	English	Comments
Density	10.5 g/cc	0.379 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 15T	44	44	annealed
	76	76	cold worked
Tensile Strength, Ultimate	179 MPa	26000 psi	annealed
	324 MPa	47000 psi	cold worked
Elongation at Break	3.0 %	3.0 %	cold worked
	42 %	42 %	annealed

Component Elements Properties	Metric	English	Comments
Palladium, Pd	1.0 %	1.0 %	
Silver, Ag	99 %	99 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000220 ohm-cm	0.00000220 ohm-cm	79 % IACS

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