

CMW® ELKONIUM 40 pure palladium

Category : Metal , Nonferrous Metal , Precious Metal , Palladium Alloy , Pure Element

Material Notes:

Palladium belongs to the platinum group of metals and like platinum is highly resistant to atmospheric corrosion; however, it begins to tarnish at temperatures above 400(C. It has a high melting point (1552(C) and, like platinum, resists arc formation. Its low electrical conductivity (16% IACS) limits its application to low current circuits. It costs much less than platinum, and is used as a lower cost alternative. Economics normally dictate that it be supplied as a composite contact with a thin contact metal facing silver brazed to a nickel-plated steel rivet, screw, or projection weld button backing.ELKONIUM® 40 is CMW's trademark for commercially pure palladium (9.90 minimum purity). Its good corrosion resistance and low hardness makes it a desirable contact for low current applications where forces are relatively low and reliability of making circuit is important. It is used in aircraft relays at currents under 1 ampere, in telephone relays and in instruments. It is often chosen for applications where contacts area open for long periods of time.Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONIUM-40-pure-palladium.php

Physical Properties	Metric	English	Comments
Density	12.0 g/cc	0.434 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 15T	57	57	annealed
	82	82	cold worked
Tensile Strength, Ultimate	193 MPa	28000 psi	annealed
	324 MPa	47000 psi	cold worked
Elongation at Break	5.0 %	5.0 %	cold worked
	28 %	28 %	annealed

Component Elements Properties	Metric	English	Comments
Palladium, Pd	>= 99.9 %	>= 99.9 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000108 ohm-cm	0.0000108 ohm-cm	16 % IACS

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