

CMW® ELKONIUM 63 Silver Alloy

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

Material Notes:

ELKONIUM® 63 alloy contains small amounts of magnesium and nickel. It is recommended for low voltage, vibrating contact DC applications for minimizing metal transfer. It is used in automobile voltage regulators and electrical gauges. In a heat-treated condition the material is CMW D63X alloy, a high strength material used for contact spring arms. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONIUM-63-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	60	60	annealed
	80	80	cold worked
Tensile Strength, Ultimate	207 MPa	30000 psi	annealed
	345 MPa	50000 psi	cold worked
Elongation at Break	7.0 %	7.0 %	cold worked
	35 %	35 %	annealed

Component Elements Properties	Metric	English	Comments
Magnesium, Mg	0.20 %	0.20 %	
Nickel, Ni	0.20 %	0.20 %	
Silver, Ag	99.6 %	99.6 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000230 ohm-cm	0.00000230 ohm-cm	75 % IACS

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