

CMW® ELKONIUM 28 Silver Alloy

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

Material Notes:

ELKONIUM® 28, a silver-manganese alloy, was developed by CMW specifically for the control of the transfer of contact material in low voltage DC applications. It is used as a positive contact operating against a CMW D582F (silver graphite, see Series 300) negative contact in vibrating contact automobile voltage regulators. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-ELKONIUM-28-Silver-Alloy.php

Physical Properties	Metric	English	Comments
Density	11.0 g/cc	0.397 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 15T	68	68	annealed
	75	75	cold worked
Tensile Strength, Ultimate	207 MPa	30000 psi	annealed
	276 MPa	40000 psi	cold worked
Elongation at Break	5.0 %	5.0 %	cold worked
	32 %	32 %	annealed

Component Elements Properties	Metric	English	Comments
Manganese, Mn	5.0 %	5.0 %	
Silver, Ag	95 %	95 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000172 ohm-cm	0.0000172 ohm-cm	10 % IACS

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