

CMW® D50F Silver Nickel Alloy

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

Material Notes:

CMW® D50F can be fabricated into wire, rod and strip; however, the headability of CMW® D50F is limited to a narrow range. It is used for main contacts in circuit breakers and switching devices where auxiliary contacts are used. This type of material has good resistance to mechanical wear under high contact forces, and maintains a stable surface resistance. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-D50F-Silver-Nickel-Alloy.php

Physical Properties	Metric	English	Comments
Density	9.3074 g/cc	0.33625 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell F	40	40	annealed
	89	89	cold worked
Tensile Strength, Ultimate	186 MPa	27000 psi	annealed
	345 MPa	50000 psi	cold worked

Component Elements Properties	Metric	English	Comments
Nickel, Ni	15 %	15 %	
Silver, Ag	85 %	85 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000220 ohm-cm	0.00000220 ohm-cm	80 % IACS

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