

# CHEMTRONICS® Technical Data Sheet

**TDS # CW2300**

## CircuitWorks® Copper Conductive Pen

### PRODUCT DESCRIPTION

CircuitWorks® Copper Conductive Pen makes highly conductive traces on circuits, quickly and easily. This product incorporates a highly engineered silver/copper metal in a polymer matrix, offering outstanding conductivity at a lower cost when compared to pure silver materials. This convenient pen is used in prototype, rework, and repair of circuits by linking components, repairing defective traces, and making smooth jumpers. The traces dry in minutes and have excellent adhesion to most electronic materials. Engineers, repair technicians, and manufacturers will find that all CircuitWorks® Conductive Pens speed project completion and cut rework time.

- Single component system
- High electrical conductivity
- Fast drying and easy to use
- Highly adherent to circuit boards
- Operating temperature to 212°F (100°C)

### TYPICAL APPLICATIONS

CircuitWorks® Conductive Pen may be used for electronics applications including:

- Circuit Trace Repair
- Solderless Linking of Components
- EMI Shielding
- Solderless Terminations
- Quick Prototype Modifications
- Electroforming

### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

#### Composition

Material	Silver Coated Copper Filled Polymer
Particle Size	10-20 microns
Color	Copper
Settling Rate	<2mm/hr.

#### Properties

Conductivity	0.07-0.09 ohms/sq/mil
Max.Operating Temperature	212°F (100°C)
Tack-Free Time @ 25°C	3 to 5 Minutes
Cure Time @ 25°C	30 to 60 Minutes
Electrical Conductivity	Very good
Adhesion	Excellent
Flexibility	Good
Chemical Resistance	Good
Tip Diameter	
STP	1.2 mm (0.05 inches)

**Shelflife** 12 months

**RoHS/WEEE  
Status**



### COMPATIBILITY

CircuitWorks® Copper Conductive Pen material has excellent compatibility with materials used in printed circuit board fabrication. As with any chemical system, compatibility with the substrate must be determined on a non-critical area prior to use.

