

842AR Pen



Silver Conductive Pen

842AR-P pen dispenses an acrylic lacquer pigmented with highly conductive silver flakes. The cured traces are durable and corrosion resistant. They adhere well to plastics and most electronic substrates. The traces are flexible, but the product works best on a smooth, flat, hard surface. The valve tip opens when pressed against the surface, and the flow is controlled by squeezing the barrel.

This pen repairs damaged traces on keyboards, game controllers, remote controls, mixing boards, and PCBs. It also creates conductive traces for prototyping, hobbies, or maker projects. It is great for making small connections in or between circuits, such as jumpers, through-holes, bridges, and links.

For applications where high conductivity is not required, the 838AR-P Carbon Conductive Pen and the 841AR-P Nickel Conductive Pen provide economical alternatives.

Features & Benefits

Creates durable, reliable and conductive traces

Typical trace width: 1.5–2.0 mm

Dries in 1 minute at room temperature

Typical linear resistance: 0.3–0.8 Ω /cm

Good flexibility

Strong corrosion resistance

Does not contain toluene, xylene, or MEK

Also available in liquid and aerosol formats, see separate TDSs

Cure Instructions

Allow to dry at room temperature for 24 hours, or after letting sit for 1 minute, cure the coating in an oven for 30 minutes @ 65 °C.



Available Packaging

Part #	Packaging	Net Vol.	Net Wt.
842AR-PS	Pen	2 mL	3.65 g
842AR-P	Pen	5 mL	9.14 g

Storage and Handling

Store between -5 and 22 °C in a dry area, away from sunlight (see SDS).

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Uncured Properties

Chemistry	Acrylic	—
Density	1.8 g/mL	ASTM D1475
Viscosity @ 25 °C	1 060 cP	Brookfield Engineering labs Inc. IPCTM-65- Method 2.4.24.4
Dry to Touch	1 min	—
Percent Solids	58 %	—
Calculated VOC	200 g/L	—
Approximate Linear Coverage	50 m	Calculated
Shelf Life	2 y	—

Cured Properties

Color	Metallic silver	—
Magnetic Class	Diamagnetic (non-magnetic)	—
Service Temperature Range	-40–120 °C	—
Resistivity	$1 \times 10^{-4} \Omega \cdot \text{cm}$	MIL-STD-883J

Application Instructions

Read the product SDS and Application Guide for more detailed instructions before using this product.

Recommended Preparation

Clean the substrate with Isopropyl Alcohol, MG #824, so the surface is free of oils, dust, and other residues

Pen

1. Shake pen vigorously until the ball moves freely inside.
2. Hold pen at angle and depress tip against surface.
3. Draw pen across surface while gently squeezing barrel.
4. Let dry 1 min before handling or heat cure.
5. Clean tip, replace cap and store tip up after use.