

## PELCO® Colloidal Silver Product Numbers. 16031, 16034

### Description:

The air-dry silvers are used to make non-conductive surfaces electrically and thermally conductive. They can be used in circuit repair or as RF shielding materials. Most can be brushed, sprayed or dipped. This material will harden in seconds as the solvent evaporates. This is sufficient for most applications but to achieve the full electrical and mechanical properties cure at room temperature for 16-20 hours or at 120-200°C for 30 minutes. A heat gun will cure the material in seconds. The conductivity of the film can be increased by repeated application of layers.

### Key Benefits:

- Electrically and thermally conductive
- Curable at room temperature
- Brush applicator cap
- High adhesion to most materials
- Solvent resistant

### Processing Notes:

- Surfaces do not have to be prepared prior to application.
- Materials will adhere to polymer (phenolic) boards, ceramic, glass, metal, plastic and fiberglass.

**CURING CONDITIONS:** Will harden in seconds as the solvent evaporates. This is sufficient for most applications but to achieve the full electrical and mechanical properties cure at room temperature for 16-20 hours or at 120-200°C for 30 minutes. A heat gun will cure the material in seconds.

**% SOLIDS:** 60% ± 1% Ag

**SHEET RESISTANCE:** 0.02 - 0.05 ohms/sq/mil (25µm)

**THINNER:** Product No. 16021 SEM Gold/Silver Extender

**SHELF LIFE:** 6 months; material should be jar rolled at 1-6 rev/hr. Avoid exposure to extreme temperatures.

**STORAGE:** Store in a dry location at 5-30°C. Allow paint to come to room temperature prior to opening. Mix thoroughly before using.

### Ordering Information

Product No.	Description
16031	PELCO® Colloidal Silver, 30g
16034	PELCO® Colloidal Silver, 15g
16021	SEM Gold/Silver Extender, 25ml

The descriptions and engineering data shown here have been compiled as according to the latest factual knowledge in our possession. The data is supplied on the condition that the user shall conduct tests to determine materials suitability for a particular application.

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