

DuPont 5426

SILVER/PALLADIUM

Technical Data Sheet

Product Description

DuPont 5426 is a plateable silver/palladium termination specifically developed for chip resistor application requiring low cost and high performance.

Product Benefits

- Excellent post-plating adhesion
- High acid resistance
- Thinner prints
- Fast firing - 850°C/30 min profile
- Cadmium-free*
- Co-fireable with DuPont 00X0A chip resistors
- Dense fired film

*Cadmium "free" as used herein means that this is not intentionally added to the referenced product. Trace amounts however may be present.

Processing

Substrates

Reported properties are based on tests with 96% alumina substrates. Substrates of other compositions may yield variations in performance properties.

Screen Printing Equipment

Properties are based on DuPont 5426 printed to 20±2 µm dried thickness using 250-mesh stainless steel screen with an emulsion thickness of approximately 10 µm.

Clean up Solvent

While traditional cleaners work with DuPont 5426, Arcosolv PNP (1-propoxy,2-proponal), a non-CFC alternative, is recommended.

Drying

Prints should be allowed to level at room temperature for 5 to 10 minutes and then dried for 10 minutes at 150°C.

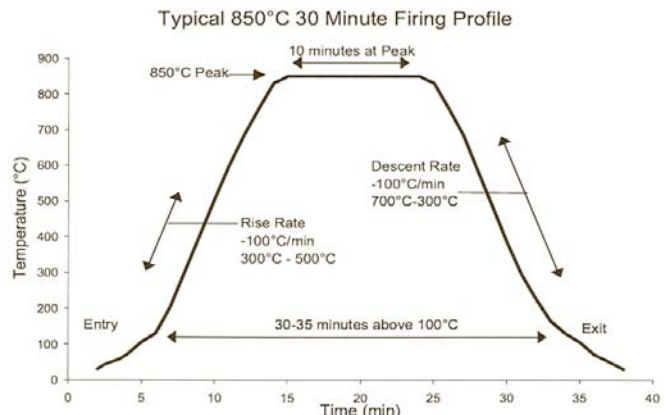
Typical Physical Properties

Test	Properties
Fired Thickness (µm)	8 - 12
Solder Adhesion (N) [62Sn/36Pb/2Ag, 220°C/10 sec Dip 2x2 mm pad, 0.8 mm wire]	10 - 18
Composition Properties	
Viscosity (Pa·s) [Brookfield HBT, 10 rpm UC&SP, 25±1°C]	200-280
Thinner	DuPont 8250

Table 1 & 2 show anticipated typical physical properties for DuPont 5426 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

Firing

Properties are based on a 30-minute firing cycle with 10 minutes at a peak of 850°C.



Storage and Shelf Life

Containers should be stored, tightly sealed, in a clean, stable environment at room temperature (<25°C). Shelf life of material in unopened containers is six months from date of shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

Safety and Handling

For Safety and Handling information pertaining to this product, read the Material Safety Data Sheet (MSDS).

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