

DuPont 7723

SILVER CONDUCTOR

Technical Data Sheet

Product Description

DuPont 7723 is a low temperature lead free*, air firing silver composition. Interconnection to DuPont 7723 can be achieved by soldering, conductive adhesive or other methods. DuPont 7723 may be used for various touch screen applications.

Product Benefits

- Low firing temperature
- High adhesion
- Good adhesion on Indium Tin Oxide (ITO) coated glass
- Lead free*

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

Processing

Thinning

- Paste should not need adjusting prior to use (stirring recommended).
- DuPont 8250 may be added, with thorough blending, to replace solvent losses or to make slight adjustments in screen printing properties.

Screen Mesh

200-325

Substrate

Soda lime glass, ITO coated glass, alumina and others

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.

Table 1
Typical Physical Properties

Test	Properties
Fired Thickness (µm)	15 - 20
Sheet Resistivity (mΩ/sq @ 25µm)	3
Viscosity at 25°C (Pa.S) Brookfield HBT#4, 10 rpm	85 - 110
Thinner	DuPont 8250

Table 1 shows anticipated typical physical properties for DuPont 7723 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

Typical Drying/Firing Conditions

- Allow leveling
- Dry 10-15 minutes at 100-150°C.
- The firing/co-firing profile should have two flat regions(plateaus). The first is burnout at approximately 325°C for 10 minutes; the second is firing/co-firing at approximately 500-540°C for 2-10 minutes.

Safety and Handling

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

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