

# DuPont 7713

SILVER FEED-THROUGH

## Technical Data Sheet

### Product Description

DuPont 7713 is a low temperature, air firing silver composition. Interconnection to 7713 can be achieved by soldering or with conductive adhesive. DuPont 7713 may be use for various touch screen applications.

### Product Benefits

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

### 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

### 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.
- Lower air flow at the peak firing temperature is recommended.

**Table 1**  
**Typical Physical Properties**

Test	Properties
Fired Thickness (µm)	15 - 20
Sheet Resistivity (mΩ/sq @ 25µm thickness depending on firing conditions)	3
Viscosity (Pa.S) at 25°C Brookfield HBF 10 rpm	65 - 95
Perecent Silver (%)	70
Thinner	DuPont 8250

Table 1 shows anticipated typical physical properties for DuPont 7713 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

### 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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