

DuPont™ BQ131

Silver Conductive Composition

Product Description

DuPont™ BQ131 is silver conductor solvent-based screen-printable polymer thick film paste. It has been designed for anode applications for electrochemical and biochemical sensors.

Product Benefits

- High solids for printing thick electrodes
- Fast drying
- High conductivity

Processing

Drying

Reel-to-Reel : 120°C for 1-2 minutes

Box oven: 120°C for 3-5 minutes

Compatibility

Only print-treated polyester film should be used. For optimal anode performance under wet applications, DuPont™ BQ131 should be printed over DuPont™ BQ111, DuPont™ BQ117 or DuPont™ BQ118 Silver composition.

Cleaning

Ethylene glycol diacetate or dipropylene glycol methyl ether.

Table 1 - Composition Properties

Test	Properties
Resistivity (mΩ/sq/mil) (Draw Down Solid)	25 - 35
Solder	Not Recommended
Ag depletion (min)	>100

Table 2 - Typical Physical Properties

Test	Properties
Viscosity (Pa.S) [Brookfield ½RVT @ 10 rpm]	20-35
Solids (150°C) [%]	85 - 89
Density (g/cc)	3.8
Thinner	DuPont™ 3610

Tables 1 and 2 show anticipated typical physical properties for DuPont™ BQ131 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

DuPont™ BQ Series compositions should be stored in a clean, stable environment at room temperature (~25°C) with their lids tightly sealed. Storage in high temperature (>30°C) or in freezers (<0°C) is NOT recommended as this could cause irreversible changes in the material.

The shelf life of compositions in factory-sealed (unopened) containers stored under room temperature (~25°C) conditions is 6 months from the date of shipment. Some settling of solids may occur over time, so composition should be stirred thoroughly before use. Some settling of solids may occur over time, so composition should be stirred thoroughly before use.

Safety and Handling

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



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For more information on DuPont™ BQ131 or other DuPont products, please visit our website.

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. It may be subject to revision as new knowledge and experience becomes available. This information is not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. Since we cannot anticipate all variations in end-use and disposal conditions, DuPont makes no warranties and assumes no liability in connection with any use of this information. It is intended for use by persons having technical skill, at their own discretion and risk. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement," H-50102-5 and "DuPont Policy Regarding Medical Applications" H-50103-5.

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