

DuPont 7988

SILVER/PALLADIUM CONDUCTOR

Technical Data Sheet

Product Description

DuPont 7988 is a silver/palladium conductors for filling or plugging through-holes in 96% alumina or AlN (aluminum nitride) substrates. It creates a low resistance front-to-back interconnection with reduced capacitance effects associated with coated through-holes in high frequency circuits. Hole-firing offers the advantage of surface planarity for increased circuit density.

Product Benefits

- Solid plugs with a slight depression to improve screen registration on following prints.
- No shrinkage away from sidewalls.

Processing

Printing

DuPont 7988 prints easily with stencils or 200-325 mesh stainless steel screens.

Drying

Allow prints to level for 5-10 minutes at room temperature. Then dry for 15-20 minutes at 150°C in a well ventilated oven or belt dryer.

Firing

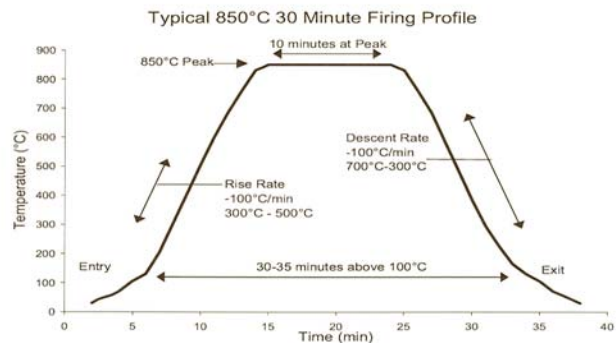
Fire in a well ventilated conveyor furnace, in air with either a 30 or 60 minute cycle and a peak temperature of 850°C.

Typical Physical Properties

Test	Properties
Metallurgy	5:1 Ag:Pd
Thinner	DuPont 9180
Solids (%)	90.0 - 92.0
Viscosity (Pa.S) (Brookfield HBT, SC4-14/6R, 10 rpm, 25°C)	550 - 850
Resistivity (mΩ/sq) (@1 mil fired thickness)	15 - 50
Coverage (sq cm/g) (@25 mil fired thickness)	2.0 - 2.5

This table shows anticipated typical physical properties for DuPont 7988 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 30 minutes fire profile



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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For more information on DuPont 7988 or other DuPont Microcircuit Materials products, please contact your local representative:

Americas

DuPont Microcircuit Materials
14 T.W. Alexander Drive
Research Triangle Park, NC 27709
Tel.: 800-284-3382

Europe

Du Pont (U.K.) Limited
Coldharbour Lane
Bristol BS16 1QD
U.K.
Tel.: 44-117-931-3191

Asia

DuPont Kabushiki Kaisha
DuPont Electronic Center
KSP R&D B213, 2-1, Sakado 3-chome, Takatsu-ku,
Kawasaki-shi, Kanagawa, 213-0012, Japan
Tel: +81-44-820-7575

DuPont Taiwan Ltd
45, Hsing-Pont Road,
Taoyuan, Taiwan 330
Tel.: 886-3-377-3616

DuPont China Holding Co. Ltd
Bldg 11, 399 Keyuan Rd., Zhangji Hi-Tech Park,
Pudong New District, Shanghai 201203, China
Tel.: 86-21-6386-6366 ext.2202

DuPont Korea Inc.
3~5th Floor, Asia tower #726,
Yeoksam-dong, Gangnam-gu
Seoul 135-719, Korea
Tel.: 82-10-6385-5399

E. I. DuPont India Private Limited
7th Floor, Tower C, DLF Cyber Greens,
Sector-25A, DLF City, Phase-III,
Gurgaon 122 002 Haryana, India
Tel.: 91-124-4091818

Du Pont Company (Singapore) Pte Ltd
1 HarbourFront Place, #11-01
HarbourFront Tower One,
Singapore 098633
Tel.: 65-6586-3022

<http://mcm.dupont.com>