

GenSolve™ 475

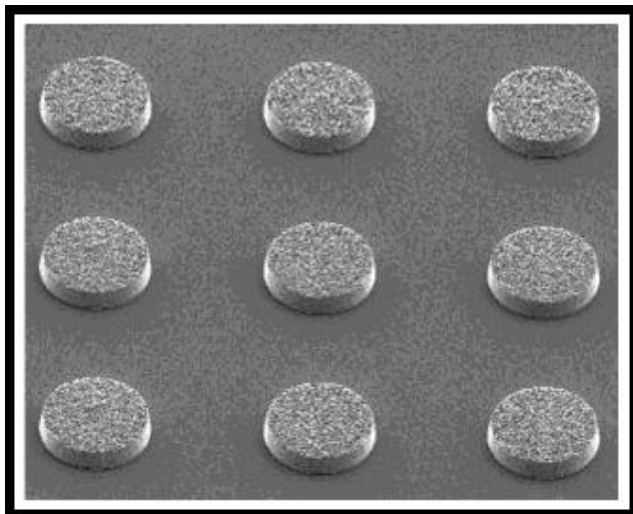
Photoresist Stripper and Cured Polymer Remover

ADVANTAGES

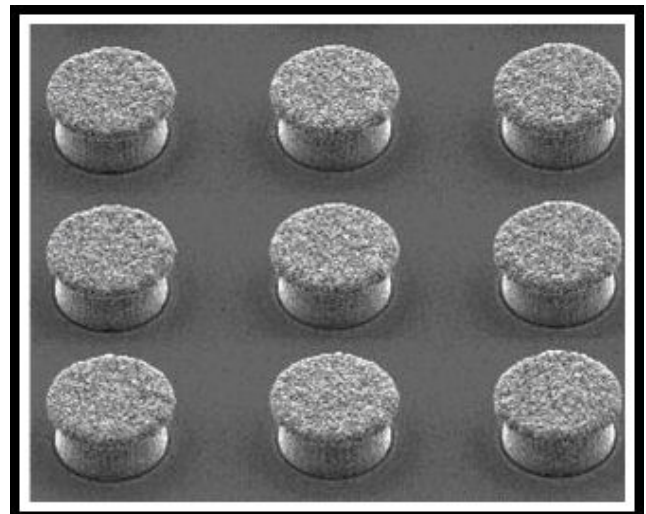
- Thick-film negative-tone acrylic-based photoresist remover
- Dry-film photoresist remover (Shipley BMRTM 100, JSR THB-151, Dupont Riston) 50um or greater in thickness
- Low-foaming and low-viscosity characteristics
- Immersion tool process times: typically 30 minutes (dual-bath totals)
- Spray tool process times: 30 – 45 minutes
- Low etch rates of Aluminum, Copper, and other metals
- No etch rates of common dielectrics or glass substrates
- Biodegradability of product and rinse solution effluents

PROCESS RESULTS

Post-Processing (Vias and Copper Posts)



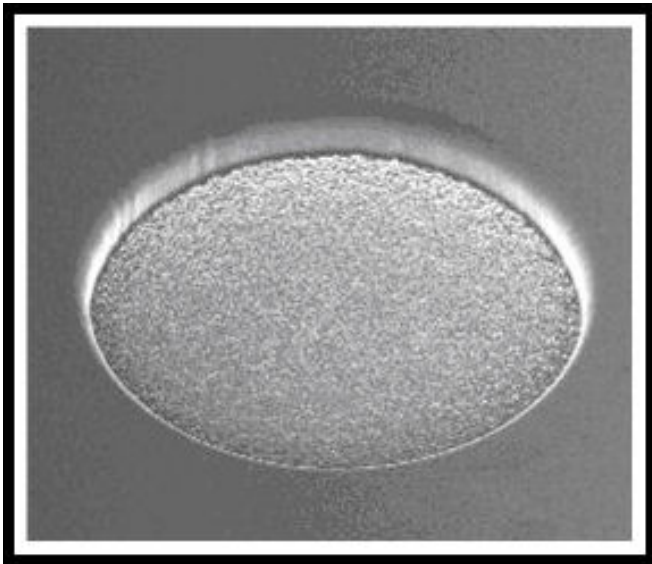
GenSolve™ 475, 5 Minutes, 70°C
Via Field



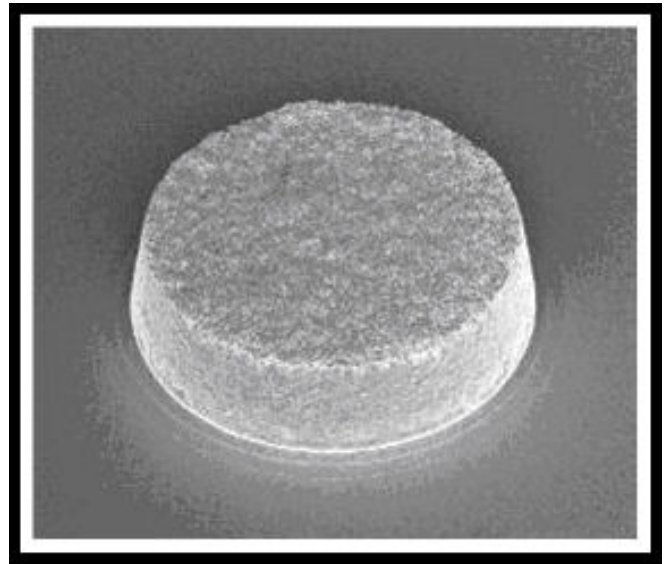
GenSolve™ 475, 5 Minutes, 70°C
Copper Post Field

PROCESS RESULTS (Continued)

Via Process

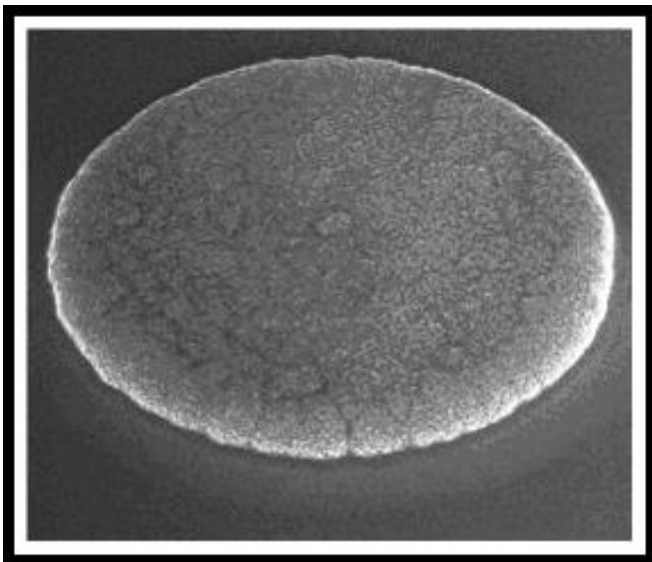


Vias
(Pre-Strip)

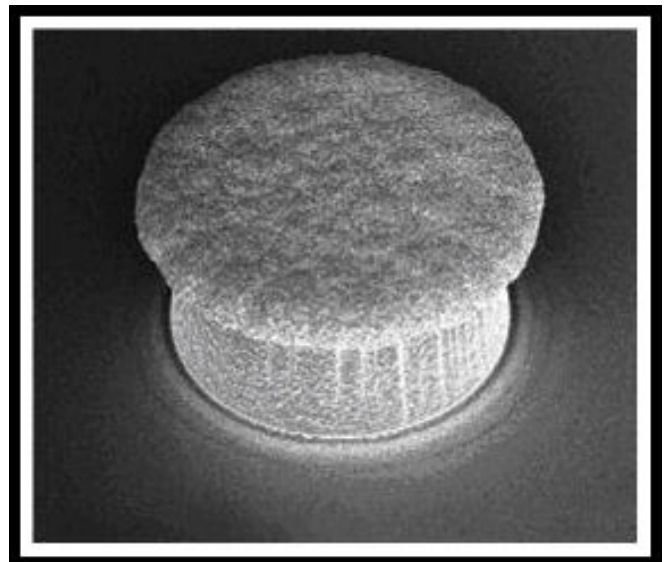


GenSolve™ 475, 5 Minutes, 70°C
Immersion-Tool Processing

Copper Post Process



Copper Post
(Pre-Strip)



GenSolve™ 475, 5 Minutes, 70°C
Immersion-Tool Processing

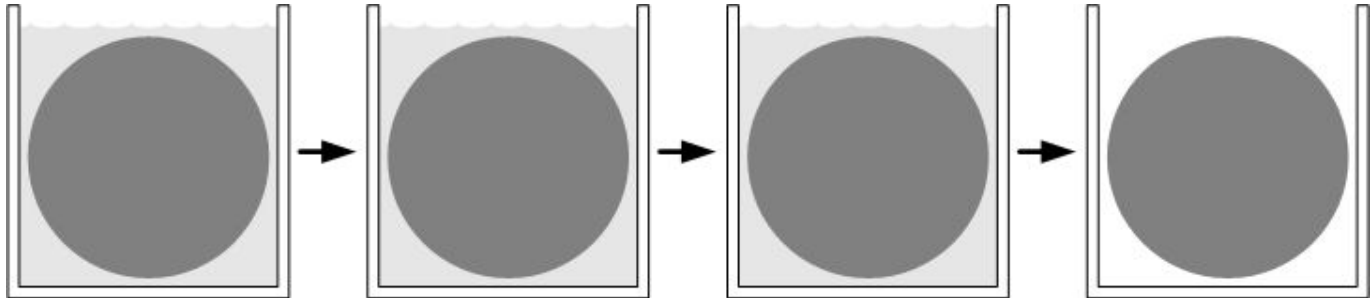
IMMERSION-TOOL PROCESS FLOW

GenSolve™ 475, 1st Bath
60-90 °C, 5-10 min.

GenSolve™ 475, 2nd Bath
60-90 °C, 5-10 min.

DI Water Rinse

IPA / N2 Dry



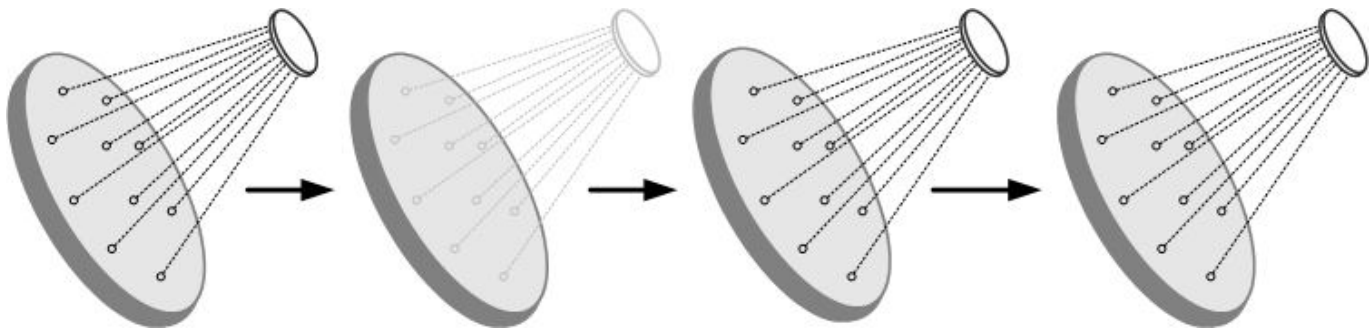
SPRAY-TOOL PROCESS FLOW

GenSolve™ 475
60-90 °C, 10-15 min.

Intermediate IPA Rinse
(Optional)

DI Water Rinse

IPA / N2 Dry



PRODUCT DESIGN

- GenSolve™ 475 is a single formulation product that is not modified for specific uses.
- This product is designed to swell and dissolve negative-tone Novolak resins along with all PACs that may be present.
- GenClean™ 805 can be used as a pre-rinse to increase solubility of certain residues.
- Bulk-resist films can be stripped in static bath, immersion, and spray tools (batch or single-wafer).
- Polyimide materials may be cleaned effectively.

ETCH RATES

- < 16Å/min of Aluminum (70°C immersion processing, 60 minute test time)
- < 2 Å/min of Copper (70°C immersion processing, 40 minute test time)

ADDITIONAL INFORMATION

Product Handling:

Wear protective gloves and safety glasses or face shield. Causes eye irritation. Inhalation of vapor or mist may cause respiratory tract irritation. Prolonged contact may cause dermatitis and burns. Wash thoroughly after handling this product. Keep container closed when not in use.

Storage:

Store in a well-ventilated area, in original containers. Keep away from strong oxidizing or reducing agents. Shelf Life: 2 years

Physical Properties:

Appearance: clear/pale-yellow liquid, Specific Gravity 1.02-1.10 @ 25°C, Flash Point: >240°F.

Protective Clothing:

Wear protective over garments, chemical resistant gloves and chemical splash goggles.

Material Compatibility:

Following materials of construction are compatible with GS™ 475: Polypropylene and Poly Olefins, Polyethylene (low and high density), Teflon, Butyl Rubber, Teflon encap silicone, Chemraz, Aflaz, and 316L Stainless steel.

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