

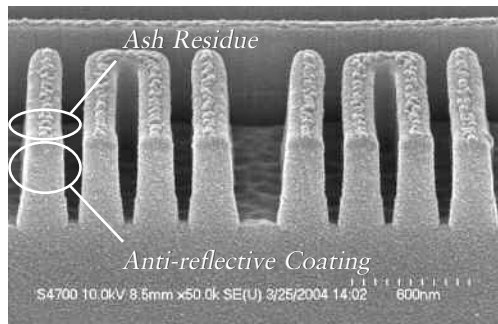
# BAKER CLκ™-288 Photoresist Stripper and Residue Remover

BAKER CLκ-288 photoresist stripper and residue remover is an aqueous cleaning product engineered for efficient removal of bulk photoresists, anti-reflective coatings and post ash residues created during dual damascene processing. Its versatility allows one chemistry to be used on copper metallization schemes that incorporate sensitive low-κ dielectrics. BAKER CLκ-288 photoresist stripper and residue remover removes the sacrificial anti-reflective coating and bulk photoresist in a single step.

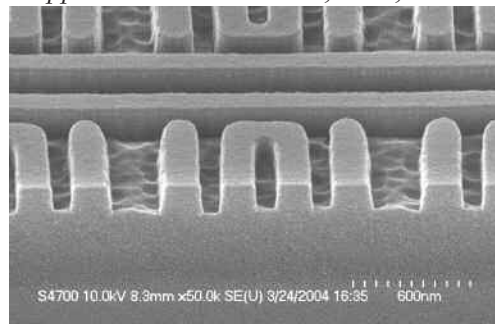
### CHARACTERISTICS:

- Efficient bulk resist and ash residue remover providing results in 5–30 minutes
- Compatible with copper and low-κ dielectrics
- 100% water soluble formulation—no intermediate solvent rinse required—resulting in efficient processing times and lower costs
- Designed to provide broad process latitude in terms of processing time and temperature
- Long bath life—typically greater than 24 hours
- Does not contain fluoride

Untreated



After cleaning with BAKER CLκ-288 photoresist stripper and residue remover, 55°C, 30 minutes



### TECHNICAL INFORMATION

#### Metal Etch Rates (Å/min) at 65°C

Cu	Ta	W
<1	<1	<1

#### Substrate Etch Rates (Å/min) at 45°C

SiN	SiC	TEOS
<1	<1	<1

#### Compatibility Information

#### Low-κ Dielectric Etch Rates (Å/min) at 45°C

General CDO	CORAL <sup>1</sup>	Black Diamond <sup>2</sup> II	FSG	SiOC
<1	1	<1	<1	<1

## Product Information

BAKER CLκ-288 Stripper and Residue Remover			
Bath Life	>24 hours	Solubility in Water	100%
Flash Point (Closed Cup)	>107°C	Specific Gravity	1.04
Freezing Point	-6°C	pH (10% in H <sub>2</sub> O)	12.0
Boiling Point	101°C		

## MATERIAL OF CONSTRUCTION COMPATIBILITY

### Compatible Materials

Chemraz <sup>3</sup>	PFE	PVC
Glass	Polyethylene	PVDF
Kalrez <sup>4</sup>	Polypropylene	Quartz
PFA	PTFE	Teflon <sup>5</sup>

## OPERATING GUIDELINES



## SAFETY

The SAF-T-DATA™ label system allows you to quickly assess the hazards that a substance presents to your health and safety, the personal protective equipment that should be used for handling and the recommended storage of compatible products by color code. The system uses a scale from zero to four. A zero rating indicates that there is no scientific data in standard references that suggest the substance is hazardous. A four rating, on the other hand, indicates that the substance is extremely hazardous. Ratings for each product are provided in four hazard categories: health, flammability, reactivity, and contact. The storage color indicates the type of storage required.

The following J.T.Baker safety information provides an overview of the safety and storage requirements for BAKER CLκ-288 stripper and residue remover.

## SAF-T-DATA RATINGS FOR BAKER CLκ-288 RESIDUE REMOVER

Health:	3–Severe (Poison)	Contact:	3–Severe (Corrosive)
Flammability:	1–Slight	Storage Color:	White (Corrosive)
Reactivity:	1–Slight		

## HANDLING

Follow guidelines as described in the Material Safety Data Sheet, which is available upon request by contacting Mallinckrodt Baker, Inc. at one of the phone numbers or e-mail addresses listed on the back page. Follow the first aid measures in section four of the MSDS in the event that you are exposed to BAKER CLκ-288 stripper and residue remover via inhalation, ingestion, or skin or eye contact. Wear protective clothing, chemical resistant gloves, and safety goggles. Wash thoroughly after handling.

## DISPOSAL

If your company chooses to dispose of the product, disposal should be in accordance with federal, state, and local requirements. Contact your Environmental, Health, and Safety Officer for further information on how your site would handle and dispose of the material.

**THE FULL LINE OF J.T.BAKER® PERFORMANCE CHEMICALS:  
PHOTORESIST STRIPPERS AND RESIDUE REMOVERS**

**SOLVENT Based:**

Photoresist Stripper/ Residue Remover	Product Number		Purpose	Application
	Bottles	Drums		
BAKER PRS-1000™	6383	6373	Positive Photoresist Stripper	Aluminum/Silicon Dioxide, Flip Chips, Bumps, Compound Semiconductors
BAKER PRS-2000™	6400	6410	Positive Photoresist Stripper	Flat Panel Display
BAKER PRS-3000™	6403	6413	Positive Photoresist Stripper	Aluminum/Silicon Dioxide, Flip Chips, Bumps, Compound Semiconductors
BAKER ALEG™-200	6505	6515	Positive Photoresist Stripper	Flat Panel Display
BAKER ALEG-310	6406	6416	Residue Remover/ Photoresist Stripper	Aluminum/Silicon Dioxide, Flip Chips, Bumps, Compound Semiconductors
BAKER ALEG-355	6405	6415	Positive Photoresist Stripper	Aluminum/Silicon Dioxide, Flip Chips, Bumps, Compound Semiconductors
BAKER ALEG-370	6408	6418	Residue Remover/ Photoresist Stripper	Aluminum/Silicon Dioxide, Flip Chips, Bumps, Compound Semiconductors
BAKER ALEG-445	6401	6411	Positive Photoresist Stripper	Aluminum/Silicon Dioxide, Flip Chips, Bumps, Compound Semiconductors
BAKER ALEG-625	6409	6409	Positive and Negative Photoresist Stripper	Flip Chips, Bumps, Compound Semiconductors
BAKER CLκ-820	6414	6424	Photoresist Remover	Copper/Low-κ
BAKER CLκ-870	6489	N/A	Residue Remover	Copper/Low-κ
BAKER CLκ-888	5108	5118	Photoresist Remover	Copper/Low-κ

**AQUEOUS Based:**

Residue Remover	Product Number		Purpose	Application
	Bottles	Drums		
BAKER REZI™-28	6426	6436	Residue Remover	Aluminum/Silicon Dioxide, Copper/Low-κ, Compound Semiconductors
BAKER REZI-38	6427	6437	Residue Remover	Aluminum/Silicon Dioxide, Copper/Low-κ, Compound Semiconductors
BAKER REZI-39	6341	6351	Residue Remover	Aluminum/Silicon Dioxide, Copper/Low-κ, Compound Semiconductors
BAKER REZI-68	6429	6439	Residue Remover	Aluminum/Silicon Dioxide, Copper/Low-κ, Compound Semiconductors
BAKER CLκ-288	5121	5131	Photoresist and Residue Remover	Copper/Low-κ

Please inquire about new J.T.Baker Performance Chemicals for your specific application.

## APPLICATION SUPPORT

Mallinckrodt Baker, Inc. has a staff of Applications Engineers available to work with you to implement a process that provides a total solution encompassing the use of J.T.Baker chemistries in your existing tools or a new facility. Evaluations can be conducted at your manufacturing site or at one of the Mallinckrodt Baker, Inc. application laboratories. For additional information about BAKER CLK-288 stripper and residue remover, contact us at 1-800-JTBAKER (800-582-2537) or at 1-908-859-9346.

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