

# DuPont™ EKC4000™ post clean treatment

## Data Sheet

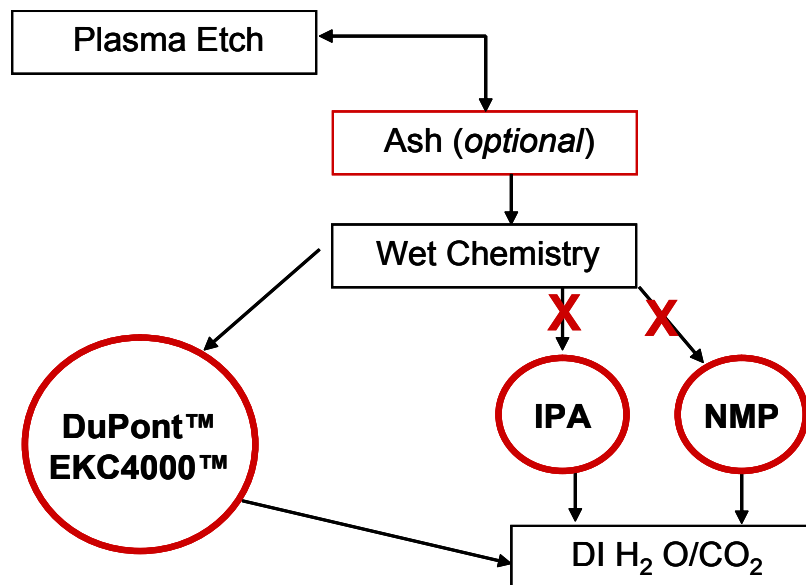
### Description

DuPont™ EKC4000™ post clean treatment (PCT) is a cost effective replacement that outperforms conventional “rinse” chemistries such as isopropanol alcohol (IPA) and N-methyl pyrrolidone (NMP). It quickly and effectively eliminates corrosion on the wafer surface caused by drag-out (carry over) of chemistry from prior wet cleaning. EKC4000™ PCT is compatible with automatic equipment and is formulated to meet Ultra Large Scale Integration (ULSI) grade specifications for advanced wafer treatment.

### Key Properties

- Eliminates sources of corrosion
- Lower mobile and transition metal ions
- Ideal for <math><0.25\mu\text{m}</math> processing
- Eliminates SARA Title III chemistries
- Aqueous based, non-combustible and non-flammable
- pH of 4.2–4.4 removes mobile and transition metal “trash” ions from the surface
- Exceptionally high neutralization capacity
- Provides a route for repair of metal oxide damage
- Easy disposal via acid drains

### Post Clean Treatment (PCT) Application Sequence

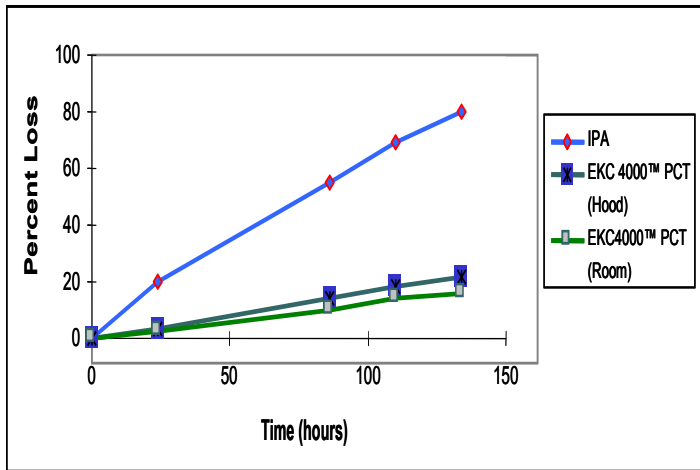


DuPont™ EKC4000™ post clean treatment replaces IPA and NMP as a rinsing agent



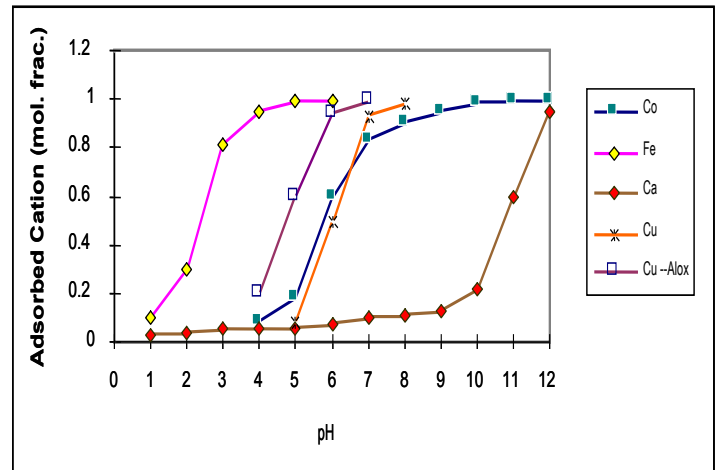
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## Evaporation Rate @ 25°C



DuPont™ EKC4000™ post clean treatment is much less volatile than other rinses, such as isopropanol (IPA). This results in improved cost of ownership in addition to improved performance.

## Cation Adsorption on Silicon Oxide<sup>1,2</sup>



The pH of EKC4000™ enables the removal of metal ion contamination from the wafer surface.

S. F. Cheah, PhD Dissertation  
K. B. Agashe, et al; J. Colloid & Inter. Sci.; 185, p174 (1997)

For more information on DuPont™ EKC4000™ post clean treatment or other DuPont EKC Technology products, please contact your local representative, or visit our website:

### Americas

DuPont Electronic Technologies  
EKC Technology, Inc.  
2520 Barrington Court  
Hayward, CA 94545  
Tel: 510 784 9105

### Taiwan

EKC Technology  
No. 2, LiHsing 4th Road  
Science-Based Industrial Park  
Hsinchu, Taiwan R.O.C.  
Tel: 866 357 90550  
Fax: 866 357 98857

### Japan

EKC Technology, K.K.  
KSP R&D D3 42  
3-2-1 Sakado, Takatsu-ku, Kawasaki  
Kanagawa, 213-0012 Japan  
Tel: 81 44 850 8215

### European Sales & Support

EU Technical Support: 44 (0) 16 98 26 69 46  
EU Sales Support: 44 (0) 15 55 72 80 84  
EU Fax: 44 (0) 13 13 41 10 43

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