

ANYONE CAN SELL YOU A WET STATION....

At NAURA Akrion
we hope to sell you
on the value of our
Process Knowledge,
Applications Support,
understanding of your
Specific Processing
Requirements,
and above all,
our total commitment
to your success.

NAURA Akrion

6330 Hedgewood Drive, #150 Allentown, PA, USA 18106

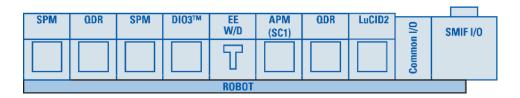
TELEPHONE: 1-610-391-9200

Allentown Facility: ISO9001:2000 Compliant

Advanced Mask Cleaning Solutions Extendable to 45nm and Beyond



ONE FULLY EXTENDABLE PLATFORM





Clear 10 System

- Strip and Clean in a single toolset (HF Etch Optional)
- Consistently lowest ionic levels
- Suitable for Binary and PSM Technologies
- Flexibility through Modular design
- High MTBF > 1500Hr E10-96; Low COO
- SMIF Compatible; High throughput capability
- Optional Chemistries: Solvents & HF Etch

CLEAR 10 PROCESS SPECIFICATIONS

Metric	Binary Clear	Binary Dark	PSM Clear	PSM Absorber	EUV Absorber
Particles >.25μm	94%	90%	92%	87%	95%
Particles > .10µm	82%	70%	80%	70%	70%
Transmission Delta per Clean	N/A	N/A	< 0.03%	< 0.03%	N/A
Phase Loss per Clean	N/A	N/A	< 0.3	< 0.3	N/A
Surface Roughening	N/A	N/A	N/A	N/A	< 0.1nm
Ionic Contamination	< 5 ppb	< 10 ppb	< 5 ppb	< 10 ppb	< 10 ppb

First Pass Probabilities are for equipment sign-off Typical performance is higher

Binary & PSM Mask Cleaning Applications



SULFATE-FREE RETICLE & PHOTOMASK CLEANING WITH PROVEN RELIABILITY:

- Patented Megasonic particle removal technology
- Patented DIO3™ organic removal technology
- Removes ionic and particulate residues associated with IC fabs

ADVANCED PATENTED TECHNOLOGY

Our combination of patented
DIO3 processing and
advanced megasonic technology provides compact
reticle cleaning solutions to
increase the useful lifetime
of advanced binary and
phase shift masks.

ONLY 3 TANKS REQUIRED FOR SULFATE-FREE RETICLE MAINTENANCE:



PROCESS SEQUENCE: DIO3 + SC1 Meg + Rinse + Dry



THE NAURA AKRION DIFFERENCE:

- Worldwide process support
 - 24 x 7 technical support
- Experienced service staff
- Experienced management team
 - Customer configurable flexible platforms

