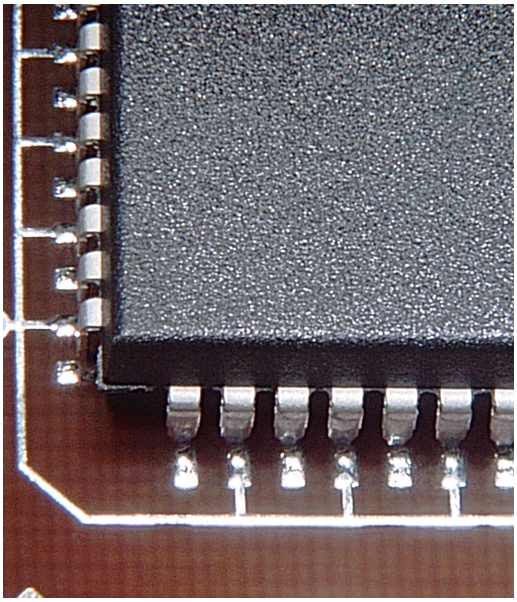
KYZEN
Where Science and Care Converge.

PRODUCT BULLETIN

AQUANOX® A4651US

Low pH Ultrasonic Immersion Cleaner

AQUANOX A4651US is a low pH aqueous cleaning solution designed exclusively for use in ultrasonic immersion cleaning systems. A4651US provides brilliant solder joints with no sump side additives and cleans exceptionally well on the latest flux formulations.



- **Effective on All Flux Types**
- **Produces Mirrored Solder Joints**
- **Consistent Successful Cleaning Results with Minimal Bath Monitoring**
- **Multi-Metal Safe Including Aluminum and Copper**
- **Easy to Use with a Low pH**

PRODUCT PROPERTIES

pH (10g/L)	9.7
FLASH POINT	None to Boiling
BOILING POINT	210°F / 99°C
WATER SOLUBLE	Complete
VOC, @ 10%	46.7 g/L

TYPICAL PROCESSES

APPLICATION	Ultrasonic
CONCENTRATION	SnPb Alloys ≤25% Pb-Free Alloys ≤30%
TEMPERATURE	<150°F / 66°C
RINSE	Hot DI Water
DRY	Hot Air

The above process parameters are recommendations based on extensive testing done in KYZEN's application lab. Your KYZEN sales representative can assist you in optimizing your process parameters.

STORAGE AND HANDLING

- Packaged in Polyethylene Containers
- Store at 5-50°C/41-122°F in Original Container
- Standard Chemical Handling Practices
- Shelf Life of 5 Years in Sealed Containers of 5 gallons/25 Liters or More

AVAILABILITY

- 1 Gallon
- 5 Gallons
- 55 Gallons
- 5 Liters*
- 25 Liters*
- 208 Liters*

* Liters Available in South Asia and Europe

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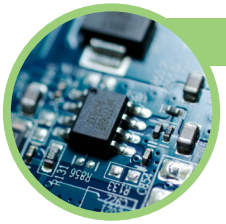
ENVIRONMENTAL, HEALTH AND SAFETY REGULATIONS

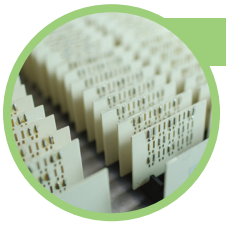
AQUANOX A4651US is RoHs compliant and Halogen-free in accordance with RoHS Directive (EU) 2015/863 and EN 14582:2016. A4651US has a negligible global warming potential, is not regulated as an Ozone Depleting Chemical in the United States, and is not listed as a Hazardous Air Pollutant. Refer to the Safety Data Sheet for more information.

REACH ✓ KYZEN is an ISO 9001:2015 Certified Company



COMPATIBILITY

AQUANOX A4651US is compatible with all materials commonly used in electronic assembly manufacturing and cleaning processes. For specific compatibility information, please contact your KYZEN representative.

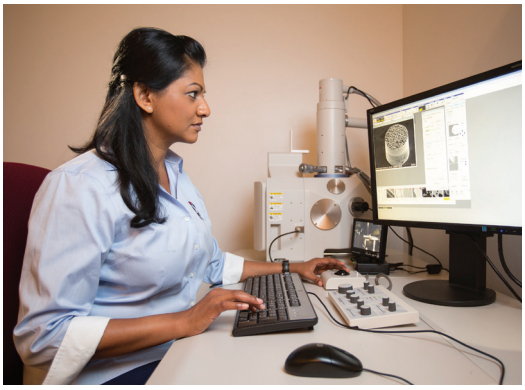


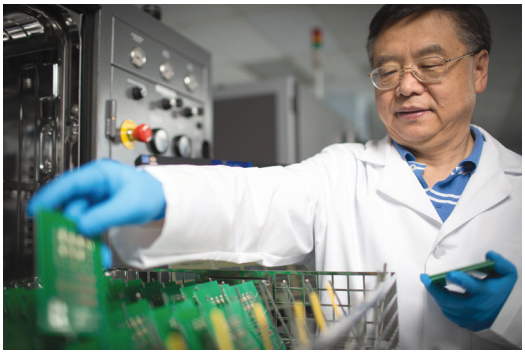
FREE CLEANING TRIALS AND PROCESS OPTIMIZATIONS

KYZEN will conduct complimentary trials at your factory or "risk-free" testing in one of our global applications laboratories in North America, Asia or Europe to ensure you achieve your goal. Increase your yields and product reliability by identifying and tuning the critical parameters of your cleaning process. With our commitment to science and understanding process, KYZEN has the flexibility to simulate and refine any cleaning process.

Each laboratory is fully equipped with an extensive array of cleaning and analytical equipment including:

- *Batch Washers*
- *In-Line Washers*
- *Ultrasonic Systems*
- *SUI Systems*
- *Vapor Degreasers*
- *GC (TCD and FID)*
- *Scanning Electron Microscope (SEM)*
- *Ion Chromatography*
- *FTIR Spectrophotometer*
- *Humidity Chamber*
- *High Powered Microscopes*





Aqueous, Semi-Aqueous and Vapor Phase Chemistries • Process Evaluation and Optimization
Contract Cleaning • Cleanliness Testing • Soil Analysis

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