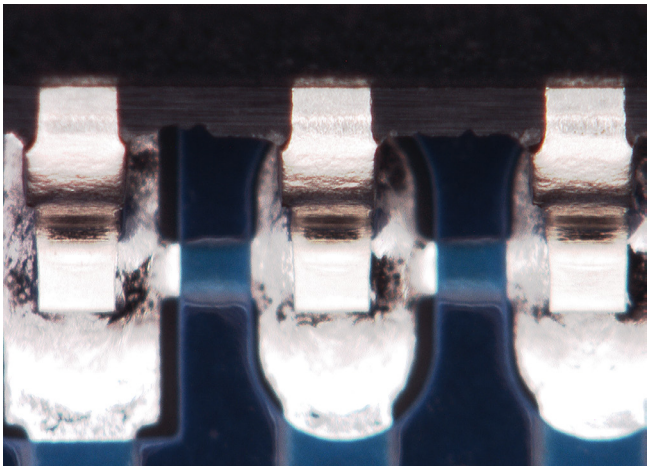
KYZEN
Where Science and Care Converge.

PRODUCT BULLETIN

IONOX® FCR

High-Strength, Semi-Aqueous Electronics Cleaner

IONOX FCR is a high-strength, concentrated cleaner containing a blend of organic solvents and inhibitors, is multi-metal safe and is designed to be used in immersion agitation, ultrasonic or centrifugal systems. IONOX FCR effectivly removes virtually all types of fluxes incldiung rosin, low residue/no-clean and organic acid flux. A water rinse is required to remove all traces of soils and cleaner residues from substrate surfaces.



- **Excellent Rinsing Properties**
- **Longer Bath Life**
- **Effective on Advanced Packaging, Hybrid and SMT Substrates**
- **Lower Cost of Use**

PRODUCT PROPERTIES	
pH	N/A (Solvent-Based)
FLASH POINT	163°F / 73°C
BOILING POINT	352°F / 178°C
WATER SOLUBLE	Complete
VOC @ 100%	1045.0 g/L

TYPICAL PROCESSES	
APPLICATION	Immersion
CONCENTRATION	100%
TEMPERATURE	140°F / 60°C
RINSE	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

IONOX® FCR

High-Strength, Semi-Aqueous Electronics Cleaner

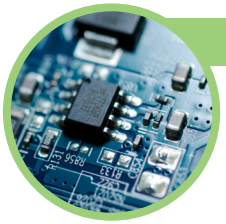
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ENVIRONMENTAL, HEALTH AND SAFETY REGULATIONS

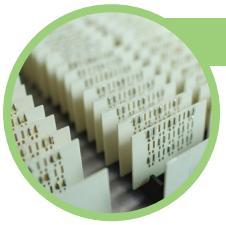
IONOX FCR is RoHs compliant and Halogen-free in accordance with RoHS Directive (EU) 2015/863 and EN 14582:2016. IONOX FCR has a negligible global warming potential, is not regulated as an Ozone Depleting Chemical in the United States and is not listed as a Hazardous Air Pollutant. Refer to the Safety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

REACH ✓ KYZEN is an ISO 9001:2015 Certified Company



COMPATIBILITY

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

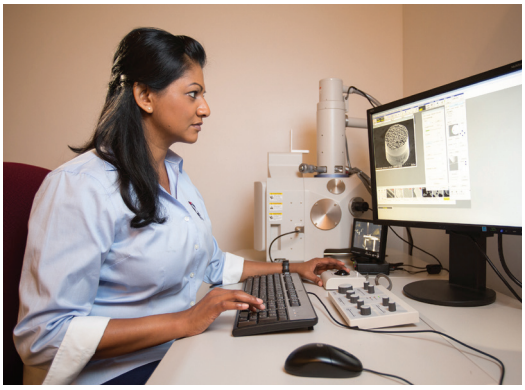


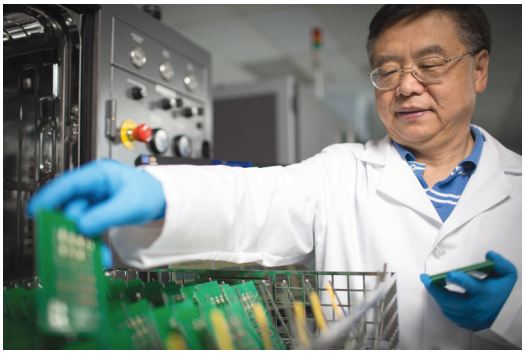
FREE CLEANING TRIALS AND PROCESS OPTIMIZATIONS

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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