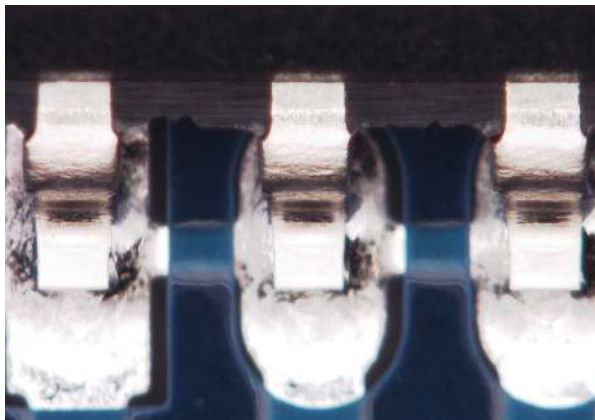


# IONOX® FCR

## High Strength Semi-Aqueous Electronics Cleaner

IONOX® FCR is a high strength concentrated cleaner containing a blend of organic solvents and inhibitors. It is agitation, ultrasonic or centrifugal systems. As a legacy cleaning solution Ionox FCR is effective for the removal of virtually all types of fluxes including 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**
- **Long Bath Life**
- **Effective on Advanced Packaging, Hybrid and SMT Substrates**
- **Low Use Cost**

### PRODUCT PROPERTIES

<b>pH (10g/L)</b>	Not Applicable
<b>FLASH POINT</b>	164°F / 73°C
<b>BOILING POINT</b>	352°F / 178°C
<b>WATER SOLUBLE</b>	Complete
<b>VOC, @ 10%</b>	104.5 g/L

### TYPICAL PROCESSES

<b>APPLICATION</b>	Immersion
<b>CONCENTRATION</b>	100%
<b>TEMPERATURE</b>	140°F / 60°C
<b>RINSE</b>	DI Water
<b>DRY</b>	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 5-30°C/41-86°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 Liters*   |
| • 5 Gallons  | • 25 Liters*  |
| • 55 Gallons | • 200 Liters* |

\* Liters Available in South Asia and Europe

# IONOX® FCR

High Strength Semi-Aqueous Electronics Cleaner



## ENVIRONMENTAL, HEALTH AND SAFETY REGULATIONS

IONOX® FCR is a biodegradable, non-corrosive solvent. It contains no CFC's or HAP's. Refer to the Safety Data Sheet for more information.

**REACH** ✓ KYZEN is an ISO 9001:2008 company.

## COMPATIBILITY

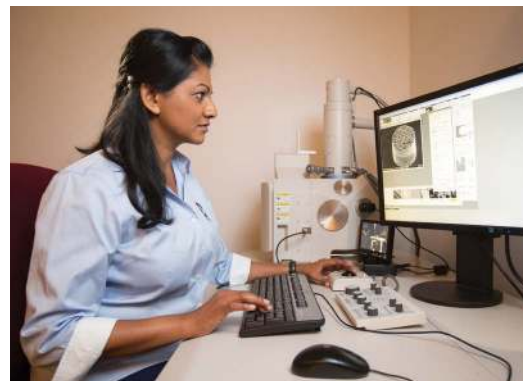
IONOX® FCR is compatible with all materials commonly used in electronic assembly manufacturing and cleaning processes. For specific compatibility information, please contact your KYZEN representative.

## 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 – including yours!

*Each laboratory is fully equipped with an extensive array of cleaning and analytical equipment, including, but not limited to:*

- 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**

KYZEN.com

Penang, Malaysia  
SOUTHEAST ASIAN HEADQUARTERS  
+60 4 630 3000

Maldegem, Belgium  
EUROPEAN HEADQUARTERS  
+32 50 396 374

Nashville, TN  
GLOBAL HEADQUARTERS  
(615) 831-0888

Manchester, NH  
NORTH AMERICAN OPERATIONS FACILITY  
(603) 622-2900

The data contained herein is based on information currently available to KYZEN and is believed to be factual and the opinions expressed to be that of qualified experts, however, the data is not to be taken as a warranty or representative for which KYZEN assumes legal or financial responsibility. KYZEN® and IONOX® are registered trade name of KYZEN Corporation in the United States and other countries. 091514