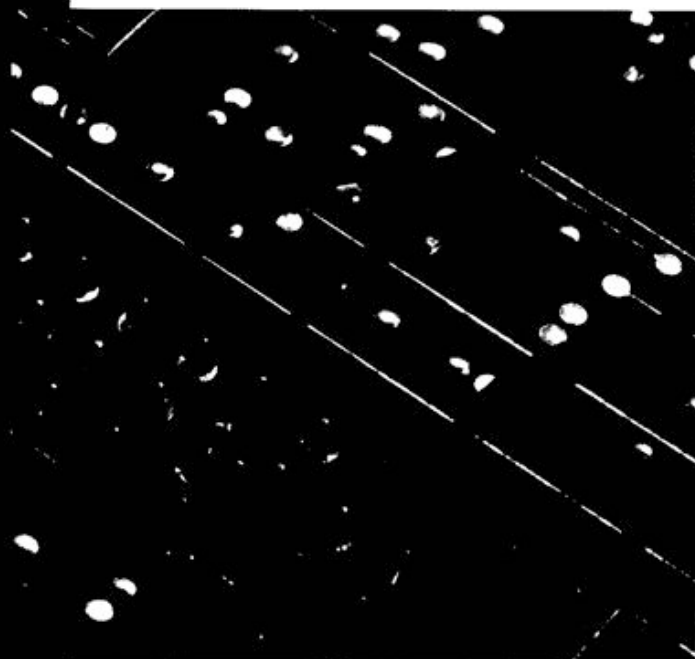


# IONOX

*Precision Cleaning Solutions*



# WYZEN



## Name your contaminant...

Flux residues, machine oils, cutting oils, grease, wax, adhesives, grease pencil, Magic Marker ... No soil or contaminant is out of the ordinary for Kyzen.

## Name your cleaning application, your cleaning process...

The Kyzen Ionox product line consists of semi-aqueous chemistries for cleaning flux residues, greases, oils, and ionic contaminants. The superior solvency and non-flammable

nature of these products make them suitable for use in a wide range of cleaning processes and applications.

Whatever process or processes you are running, there's a Kyzen Ionox formulation matched to your procedure: batch immersion, batch spray, ultrasonics, in-line immersion, bench top and assembly equipment cleaning.

And for whatever cleaning application, there's a Kyzen Ionox formulation for the job: microelectronic hybrids, printed circuit assemblies, surface mount assemblies, stencils and tooling, electrical and electronic components, precision and optical parts or misprinted paste and adhesives.

Ionox cleaning solvents are based on Kyzen alcohol. A simple organic compound, Kyzen alcohol is environmentally-derived from natural organic material or biomass. Its very low vapor pressure (approx. 0.6mm of Hg at 70°F) and a flash point in excess of 180°F, allow many of the Ionox formulations to begin boiling without exhibiting a flash point. Ionox products, like all Kyzen alcohol-based formulations, are easy to use, entirely biodegradable, completely water soluble, and rinsable unlike terpene or hydrocarbon based products.

Kyzen's innovative Ionox, Aquanox, Lonox and Metalnox product lines provide solutions for electronics cleaning, metal and precision parts cleaning, and other specialized cleaning applications in a wide range of high technology industries.

At Kyzen, we think precision cleaning is about process. Cleaning chemistries, cleaning machines, and water treatment, all coming together in an integrated solution.

And we think it's about people. Expert technical support working with you to formulate the best possible solution for your cleaning job.

Our reputation and success are based on selling solutions, not chemicals.

Kyzen Corporation. A solution-driven, process company.

Ionox products are designed to be used at full strength. (The Aquanox product line of concentrated cleaners is designed to be diluted with water.) Ionox products clean by solvent action of Kyzen alcohol, and are produced with the highest cleaning quality standards available.

Like all Kyzen products, the Ionox product array is backed by the company's extensive Cleaning Applications & Evaluation Center — and with screen printing, reflow, wave soldering, in-line, and batch-cleaning capabilities, you can evaluate your complete electronic assembly process in our facility and select the Kyzen chemistry that is most effective for your cleaning application.

The Ionox product line and Kyzen demonstration facilities are augmented and strengthened by our ability to custom-formulate to your specific needs.

Our expert technical support staff will validate and implement a solution for your cleaning problem. And they'll help you accelerate the implementation cycle by testing and getting things right in our Applications Center, before reaching your facility and your machinery.

## **CLEANING SOLUTIONS**

*concentrated organic semi-aqueous solvents*

### **Ionox FCR**

A high strength cleaner for removal of the most difficult soldering fluxes, "no clean" fluxes, and residues from microelectronics, hybrid, and surface mount assemblies, in a variety of cleaning processes — often without the use of high impingement air sprays or ultrasonic agitation. Small amount of buffer agent. Complete water solubility makes rinsing easy.

### **Ionox FC**

A strong, non-ionic solution for cleaning difficult soldering fluxes and assembly residues, from through-hole, hybrid, and surface mount electronics. Effective in batch, in-line, impingement air spray, and ultrasonic cleaning systems.



# AGENTS

agent	contaminants removed	operating concentration	operating temp range	flash point
<b>Organic semi-aqueous solvents</b>				
Organic solvent B Organic solvent C	"no-clean", white gum rosin, synthetic resin flux cleaner	full	120 - 160°F	164°F (CC) 184°F (OC)
Organic solvent B Organic solvent C	"no-clean", white gum rosin, synthetic resin flux cleaner	full	120 - 160°F	164°F (CC) 176°F (OC)
Organic solvent B Organic solvent C	"no-clean", white gum rosin, synthetic resin flux cleaner	full	120 - 160°F	none to boiling
Organic solvent B Organic solvent C	"no-clean", white gum rosin, synthetic resin flux cleaner	full	120 - 160°F	none to boiling
Organic solvent B Organic solvent C	white gum rosin, synthetic resin flux cleaner	full	120 - 160°F	none to boiling
Organic solvent B Organic solvent C	white gum rosin, synthetic resin flux cleaner	full	120 - 160°F	none to boiling
Organic solvent B Organic solvent C	white gum rosin, synthetic resin flux cleaner	full	120 - 160°F	none to boiling
Organic solvent B Organic solvent C	"no-clean", white gum rosin, synthetic resin flux cleaner	full	70 - 100°F	162°F (CC) 172°F (OC)

Organic solvent B, OC = Open Cup

# KYZEN



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