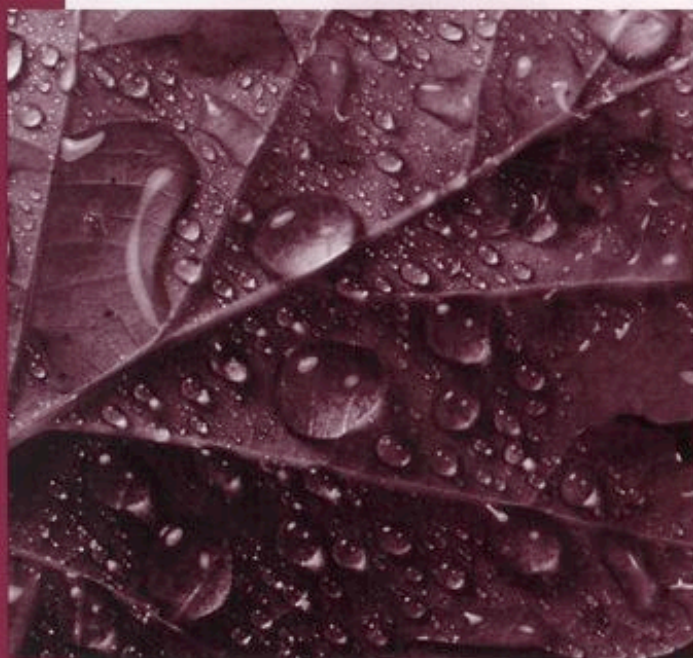


# LONOX

*Precision Cleaning Solutions*



# KYZEN



## **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 Lonox product line consists of concentrated, aqueous precision cleaning solvents designed for use in applications where control of VOC-emissions is required.

*Kyzen's innovative Lonox, Optisol, Ionox, Aquanox 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.*

Designed for use in batch or in-line spray cleaning machines, Lonox products have proven effective in cleaning a broad range of resin and "no-clean" fluxes, and organic acid fluxes on through-hole and surface mount electronic components. Lonox is also effective in cleaning ferrous and non-ferrous precision metals.

Lonox products combine inorganic or non-VOC materials, to form effective "low solids" cleaning solvents. Lonox formulations have low levels of active and inorganic material which eliminate scale and precipitation in wash equipment.

Like all Kyzen products, the Lonox 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 Lonox 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**

*VOC compliant aqueous solvents*

### **Lonox L5003**

Lonox L 5003 is a water mixable, concentrated precision cleaning solvent designed for use in applications where non-VOC cleaning solutions are required, or where other VOC-compliant products have produced undesirable effects, such as severe scaling of wash equipment. L5003 has proven to be effective in the removal of a broad range of RMA, OA and no-clean solder pastes without damage to stencil emulsions and tape adhesives.

### **Lonox L5005**

Lonox L 5005 is concentrated printed circuit board saponifier designed for use in applications where non-VOC cleaning solutions are required, or preferred. This unique formulation eliminates foaming and "white scaling" that usually occurs with inorganic chemistries. L5005 is effective in a broad range of cleaning situations including electronics flux removal and some precision metal applications. This product is compatible with most batch and in-line aqueous cleaning equipment.

## CLEANING AGENTS

cleaning  
application

contaminants  
removed

operating  
concentration

operating  
temp range

### VOC compliant aqueous solvents

#### Lonox L5003

stencil printing &  
screens

misprinted pastes  
& fluxes

5 - 10%

70 - 130°F

#### Lonox L5005

through-hole &  
surface mount  
electronics;  
precision metal parts

electronics flux,  
paste, production  
process residues

10 - 15%

140 - 160°F

