

# Alternatives for Traditional Solvents

WHEN YOU NEED **SAFER, MORE EFFECTIVE SOLUTIONS,**  
CALL KYZEN FOR **ALTERNATIVES**

In 2022, 3M announced to exit per- and polyfluoroalkyl substance (PFAS) manufacturing and work to discontinue use of PFAS in its product portfolio by the end of 2025. Common Solvent Product Name: NOVEC Solvents  
The American Innovation & Manufacturing (AIM) Act enacted in December 2020 mandates a phasedown schedule of HFC production. Beginning in 2024, 40% HFC's will be removed from the marketplace, while by 2036 85% HFC's will be removed.  
**At KYZEN, we offer substitutes that are the right fit for your process.**

## INDUSTRIAL VAPOR DEGREASING ALTERNATIVES

### METALNOX M6920

*(VOC-Free Solvent Cleaner)*

A highly effective VOC-free cleaning solution intended for use in vapor degreasing equipment, cold cleaning, and manual cleaning. M6920 is aerospace approved as a suitable replacement for AK225. M6920 has proven compatible with a variety of metal parts, such as stainless steel, copper, iron, aluminum, and titanium. M6920 can be also used as a rinse agent in KYZEN Duo-Solvent process.

### KYZEN SLV901

*(HFE / HFC Free Cleaning Solvent)*

KYZEN SLV901 is a "future-proof", PFAS-free, non-flammable vapor degreasing fluid engineered to clean a variety of soils from common metals used in medical devices. It is a drop-in replacement for HFE's, HFC's, and other undesirable or discontinued products. SLV901 can be used in the vapor and/or immersion phases.

### KYZEN SLV803

*(Precision / Critical Cleaning Solvent)*

KYZEN SLV803 is a "future-proof", PFAS-free, non-flammable fluid with ultralow NVR that can be used for critical cleaning and final rinsing of medical devices. It can be used to replace HFE's, HFC's and other undesirable or discontinued products. SLV803 can be used as a rinsed agent in co-solvent or Duo-Solvent processes.



## VACUUM DEGREASING ALTERNATIVES

### METALNOX M6386

*(Modified Alcohol Solvent Cleaner)*

A modified alcohol-based solvent designed for use in automated vacuum degreasing cleaning machines featuring continuously regenerated solvent. M6386 is highly effective on paraffinic and water-based oils, cutting fluids and milling fluids commonly used in a variety of machining and stamping operations.

### METALNOX M6381

*(Precision Hydrocarbon Solvent Cleaner)*

A hydrocarbon solvent cleaner designed for use in automated vacuum degreasing cleaning machines featuring continuously regenerated solvent. M6381 is commonly used to remove oil-based contaminants from metal parts supplied to the automotive, transportation, aerospace, marine, and other high-tech industries.



## AQUEOUS CLEANING AGENTS Possible alternative solutions based on application.

### **METALNOX M6314** *(Mild Alkaline All-Metal Cleaner)*

A safe, all-purpose aqueous cleaner suitable for all spray cleaning and ultrasonic systems. M6314 is specifically designed to clean a broad range of both water-soluble and insoluble oils and removes oil, grease, emulsions as well as lubricants commonly used in metal industries.

### **METALNOX M6310** *(Mild Alkaline Cleaner with Aluminum/Brass Protection)*

A unique, mild alkaline, aqueous cleaning chemistry that contains corrosion inhibitors to protect soft metals such as aluminum, brass, bronze, and copper. M6310 works successfully in both spray and immersion cleaning processes at low concentrations.

### **METALNOX M6355** *(Multi-Metal Safe Aqueous Cleaner for Remanufacturing)*

A heavy-duty cleaning chemistry designed to meet the stringent demands of remanufacturing operations. M6355 effectively removes oils and carbon from aluminum and steel parts without damaging or discoloring. M6355 is designed for spray-in-air, rotary basket and immersion cleaning systems. Highly concentrated to provide an exceptionally long bath life.



## ELECTRONICS VAPOR DEGREASING ALTERNATIVES

### **MICRONOX MX2501** *(Engineered Cleaning Solvent for Electronics)*

An engineered precision cleaning solvent designed to be a drop-in replacement for modern era degreasing equipment. MX2501 is effective in removing no-clean and rosin flux residues with superior performance characteristics over other fluorinated based cleaning solvents.

### **METALNOX M6922** *(VOC Compliant Green and Clean Solvent)*

Effective in solubilizing various fluxes and other contaminants that are present in electronics cleaning. M6922 is VOC Exempt as per US EPA, and non-flammable as per ASTM E-681. M6922 can be used as a stand-alone cleaning solvent in vapor degreasing, or as rinse agent in KYZEN Duo-Solvent process and is compatible with most metals and various plastics and elastomers.



KYZEN is the global leader in the development of high performance, innovative cleaning process solutions for Electronics Manufacturing, Metal Finishing and Advanced Packaging applications. We go beyond ever-changing compliance regulations to surpass customer expectations in quality, technical support and process innovation.

That's why KYZEN has been honored with nearly 100 prestigious industry awards in categories including New Product Innovation, Environmental, Best Cost of Ownership, and the Customer Service Award, for 15 years consecutively. Take a look below at the best options for you and let us know if you have any questions.

**NOTE: All products can be tested in our Applications Lab for process capability and substrate compatibility.**

