

Flux Removers

Flux removal is critical to insure reliable circuitry. Not only unsightly, some flux residue can promote short circuits and corrosion, degrading or destroying the printed circuit board. The type of flux to be removed, solvent compatibility and ease of application are all factors to consider when choosing a flux remover.

Flux-Off® Flux Removers are available in aerosol, BrushClean™ System, and liquid form for vapor degreasers, spray systems, ultrasonics and dip tank applications.

All flux remover aerosols can be sprayed in any direction, even upside down. Look for the “All-Way Spray” icon on the can.



Flux-Off® Flux Removers are specially formulated to remove all types of lead-free, rosin (types R, RA and RMA), no-clean, water soluble and synthetic (type SA) flux.

Recommended for:

- Post-solder operations
- PC boards
- Sensitive circuit components
- Component leads
- SMD pads
- Chip carriers
- Plugs, sockets and heat sinks
- Thru-hole and SMT devices
- Screens and stencils
- Work areas



CIROZANE™ – HCFC-225 replacement chemistry

VERIZANE™ – HCFC-225 replacement chemistry; formulated with DuPont™ Vertrel® Specialty Fluids

Flux-Off® CZ

Non-ozone depleting, nonflammable flux remover safe for use on plastics

- Safe on plastics
- Nonflammable
- Cleans R, RMA, RA, and no-clean flux
- Dries fast
- Leaves no residue
- Ideal AK225 replacement

Applications:

- Liquid may be used in vapor degreasers and ultrasonic baths

ES7200 12 oz / 340 g aerosol

ES7208B 5 oz / 141 g BrushClean™ System

Flux-Off® VZ

Economical, non-ozone depleting, nonflammable flux remover

- Nonflammable
- Cleans R, RMA, RA, and no-clean flux
- Low odor
- Dries fast
- Leaves no residue
- Test on plastics
- Ideal AK225 replacement

Applications:

- Removal of flux during post soldering applications
- Cleaning of printed circuit boards, component leads and surface mount devices/pads
- Screens and stencils

ES6200 12 oz / 340 g aerosol

ES6201 1 gal / 3.7 L liquid

ES6255 53 gal / 200 L liquid



Product Selection Guide

	Primary Flux Residue Cleaned			Features								Cleaning Methods					
	Rosin Based*	No-Clean SA-Synthetic	Water Soluble	Removes White Residue	Plastic Safe	Nonflammable	No Ozone Depleting Chemicals	Dries Fast	Aerosol Spray	BrushClean™ System	Hand Cleaning	Vapor Degreasing	Ultrasonics	Immersion	In-Line Spray System	Benchtop Spray System	Rinsing Recommended
Flux-Off® CZ	1	2	NR		✓	✓	✓	✓	✓	✓	✓						
Flux-Off® VZ	1	2	NR			✓	✓	✓	✓		✓	✓	✓				✓
Flux-Off® Rosin	1	2	2		✓		✓	✓	✓	✓	✓		✓				✓
Flux-Off® Lead-Free	1	2	2				✓	✓	✓	✓	✓		✓				✓
Flux-Off® No Clean	2	1	NR			✓		✓	✓	✓	✓						
Flux-Off® No Clean Plus	1	1	2	✓			✓	✓	✓	✓	✓		✓				✓
Flux-Off® Water Soluble	2	NR	1		✓		✓	✓	✓		✓		✓				✓
Flux-Off® Heavy Duty	1	1	2	✓		✓	✓	✓	✓	✓	✓		✓	✓			✓
Flux-Off® Aqueous	1	2	1	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓

1- Excellent 2- Good NR-Not Recommended *R, RMA, RA, Rosin-based No-Clean

Flux-Off® Lead-Free

Powerful flux remover for high temperature, lead-free flux removal

- Engineered for removing high temperature, lead-free flux
- Can also be used to remove tin/lead fluxes
- Flammable
- Evaporates quickly without leaving residue

ES1697 12 oz / 340 g aerosol
ES897B 6 oz / 170 g BrushClean™ System
ES197 1 gal / 3.7 L liquid

Flux-Off® Rosin

Plastic safe flux remover for cleaning all rosin and rosin-based no-clean flux

- Safe on plastics
- Flammable
- Ozone safe
- Leaves no residue

Applications:

- Cleans type R, RMA, RA and rosin-based no-clean flux

ES1035 10 oz / 283 g aerosol
ES1035B 10 oz / 283 g BrushClean™ System
ES835B 5 oz / 141 g BrushClean™ System
ES135 1 gal / 3.7 L liquid
ES5535 55 gal / 208 L liquid

ASK THE EXPERTS!

Chemtronics has application specialists standing by to identify the best solution for you. Call 800-645-5244 or e-mail askchemtronics@chemtronics.com.



Flux-Off® No Clean

Nonflammable flux remover for cleaning no-clean flux

- Nonflammable
- Dries fast
- Leaves no residue
- Test on plastics
- Contains HCFC-225
- Not for sale or use in Canada

AK225
phase out

Applications:

- Removes all types of rosin-based and synthetic no-clean fluxes
- Can be used in ultrasonic or immersion bath

ES1695 12 oz / 340 g aerosol

ES895B 6 oz / 170 g BrushClean™ System

ES195 1 gal / 3.7 L liquid

Flux-Off® No Clean Plus

Powerful economical flux remover for cleaning no-clean flux

- Flammable
- Dries fast
- Leaves no residue
- Test on plastics

Applications:

- Removes all types of rosin-based and synthetic no-clean fluxes
- Minimizes white residue formation

ES1696 12 oz / 340 g aerosol

ES896B 6 oz / 170 g BrushClean™ System

ES196 1 gal / 3.7 L liquid

Flux-Off® Water Soluble

Plastic safe flux remover for cleaning water-soluble flux

- Safe on plastics
- Flammable
- Dries fast
- Leaves no residue

Applications:

- Cleans water soluble fluxes
- Safe for use on water sensitive components
- Also cleans rosin-based flux

ES1530 13.5 oz / 383 g aerosol

ES130 1 gal / 3.7 L liquid

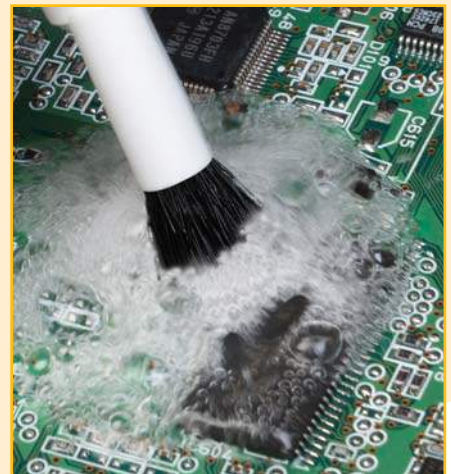


The BrushClean™ System

The gentle scrubbing action of a brush combined with high performance flux removers

The BrushClean™ System combines the best cleaning formulations with the gentle scrubbing action of a convenient brush system. This system increases cleaning efficiency in two ways – minimizing solvent usage by applying solvent only where you need it, and maximizing cleaning with the addition of mechanical scrubbing action. The BrushClean™ System is the fast and easy way to give contamination the brush-off.

- Powerful solvents combined with the scrubbing action of a brush
- Brush applies solvent exactly where you want it
- Solvent flow flushes brush clean
- A new brush is supplied with every easy-grip can
- Three powerful tools — one convenient package:
 1. Spot clean with the brush
 2. Flush under SMD's with the extension tube
 3. Clean large areas with the spray nozzle



Flux-Off® Heavy Duty

Heavy-duty flux remover for removing encrusted no-clean and rosin flux

- Nonflammable
- Dries fast
- Leaves no residue
- Test on plastics

Applications:

- Ideal nonflammable solution for removing encrusted no-clean and rosin flux

ES1631 12 oz / 340 g aerosol

ES131 1 gal / 3.7 L liquid



Flux-Off® Aqueous

Aqueous flux remover for use in ultrasonics and in-line cleaning systems

- Safe on plastics
- Nonflammable
- Concentrated – dilute to adjust cleaning strength
- Requires a water rinse

Applications:

- Removes all flux types; including no-clean
- Engineered for use with immersion, ultrasonic, and in-line cleaning systems

ES132 1 gal / 3.7 L liquid



IPA - Isopropyl Alcohol

Conveniently packaged and easy to use isopropyl alcohol

- Safe on plastics
- Flammable
- Dries fast
- Leaves no residue
- Cleans hard-to-reach areas

ES820L 8 fl oz / 236 ml liquid

ES3205 32 fl oz / 940 ml liquid

ES105 1 gal / 3.7 L liquid

ES505 5 gal / 18.9 L liquid

ES5505 53 gal / 200 L liquid



For removing very difficult, encrusted flux, try *Electro-Wash® Two Step Cleaner Degreaser* — the extra-strength, nonflammable ultrasonic and immersion cleaner. See page 9.



Eco-Rite™ Stencil Cleaner

Environmentally preferable stencil cleaner

- Effectively cleans wet and dry solder paste
- Removes misprinted paste
- Nonflammable
- No phosphates, EDTA, or NTA
- Non-caustic, non-acidic, no chlorine bleach, no abrasives
- No carcinogens or ozone depleting compounds
- No petroleum distillates
- No alkylphenoethoxylates
- Butyl-free

Applications:

- Used to clean stencils by:

- Underside wiping
- Ultrasonic stencil cleaning
- Spray cleaning

- Removes the following paste types:

- Rosin-based (R, RMA, RA)
- No clean
- Lead-free
- Water soluble
- Adhesives

ES3299 32 oz / 0.94 L trigger sprayer

ES199 1 gal / 3.7 L concentrate

