Flux-Off® Water Soluble Flux Remover

Product# ES1530, ES130

Product Description

The Flux-Off Water Soluble CARB compliant formulation is a proprietary blend of powerful cleaning solvents designed to replace TMS based solvents. This defluxing agent removes R, RMA, RA, and synthetic flux residues, as well as ionic and non-ionic soils.

- Removes R, RMA, RA, and synthetic flux residues
- Penetrates hard to reach areas
- Evaporates quickly
- Leaves no residues
- Removes light oil and grease residues
- Removes ionic and non-ionic residues
- Excellent material compatibility
- Non-corrosive formulation
- Contains no CFCs or HCFCs

Typical Applications

Flux-Off Water Soluble removes flux residues and cleans:

- Chip Carriers
- Heat Sinks
- Plugs
- Printed Circuit Boards
- Relays
- Sockets
- Surface Mount Device Pads
- Switches

Typical Product Data and Physical Properties

Boiling Point:		180°F / 82ºC (Initial)
Solubility in Water:		Soluble
Specific Gravity:	Aerosol Liquid	0.79 0.84
Surface Tension: (dynes/cm @ 21.6°F)		21.1
Flash Point (TCC):		70ºF
Evaporation Rate: (butyl acetate =1)		>1
VOC* Content: CARB SCAQMD Federal	Aerosol 75% 663g/L 75%	Liquid 75% 626g/L 75%
Kauri-Butanol (KB) Number	80	
Shelflife	Aerosols Liquids	5 years 2 years after opening
RoHS Compliant		Yes

*Volatile Organic Compound (VOC) information is calculated on a weight basis using the VOC definition of California Air Resources Board (CARB) Consumer Product Regulations, South Coast Air Quality Management District (SCAQMD) Rule 102 and the Federal definition published in 40 CFR 51.100(s).

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Compatibility

Flux-Off Water Soluble is generally compatible with most materials used in the electronics industry. As with any cleaning agent, solvent/component compatibility must be determined on a non-critical area prior to use.

Material	Compatibility
ABS	Excellent
Buna-N	Good
EPDM	Fair
Graphite	Excellent
HDPE	Excellent
LDPE	Excellent
Lexan	Excellent
Neoprene	Good
Noryl	Excellent
Nylon 66	Excellent
Cross-Linked PE	Excellent
Polypropylene	Excellent
Polystyrene	Excellent
PVC	Excellent
Silicone Rubber	Good
Teflon	Excellent
Viton	Good

Performance

Product Required for Rosin Removal *(mg solvent / 1 mg rosin flux)*

Flux-Off Water Soluble	71.0
Conventional TF Solvent Blends	277.0

Rosin Removal Rate *(mg / in² sec.)*

Flux-Off Water Soluble	3.69
Conventional TF Solvent Blends	1.23

Usage Instructions

For industrial use only. Read SDS carefully prior to use.

Spray 4-6" from surface to clean. Wash parts from top to bottom, allowing the liquid to flush away dirt and dissolved grease. For precise application use attached extension tube. Product is flammable - Do not use near sources of ignition and energized equipment.

Availability

ES1530 13.5 oz. / 383 g Aerosol
ES130 1 gal. / 3.7 L Liquid

Environmental Impact Data

HCFC-141b	None
HCFC-225	None
HFC	Aerosol - Yes
nPB	None

Hydrochlorofluorocarbons (HCFCs) are regulated under the Montreal Protocol as Class II ozone depleting substances. HCFC-141b is no longer produced in the US under this legislation. HCFC-225 is planned for production phase-out in 2015. Hydrofluorocarbons (HFCs) are not currently regulated.
EPA has listed n-propyl bromide (nPB) as an acceptable alternative to ozone depleting substances in metal, precision, and electronics cleaning under Section 612 of the Clean Air Act.

Technical and Application Assistance

Chemtronics provides a technical hotline to answer your technical and application related questions.
The toll free number is: 1-800-TECH-401.

Note:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.