

# ALPHA<sup>®</sup> AutoClean 40 Aqueous Electronics Cleaner

How does flux residue build-up affect the reliability and performance of your PWB assembly line?

Are you observing any of the following conditions in your assembly process?

- Excess flux build-up due to use of rosin-bearing fluxes and elevated lead-free process temperatures?
- Use of standard, solvent-based cleaners or saponifiers not completely removing residues?
- Flux residue build-up on soldering pallets in wave soldering applications?
- Concern about operator safety when using IPA or alcohol-based cleaners?

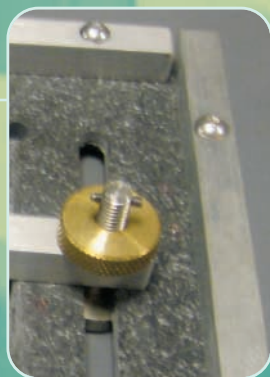
Spray fluxer with baked on flux residue



Spray fluxer after cleaning with ALPHA<sup>®</sup> AutoClean 40 Aqueous Electronics Cleaner



Pallet after multiple wave soldering cycles using ALPHA EF-10000 high rosin content flux and SACX lead-free wave solder alloy.



Pallet after cleaning with ALPHA<sup>®</sup> AutoClean 40 Aqueous Electronics Cleaner

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Cookson Electronics

# ALPHA® AutoClean 40 Aqueous Electronics Cleaner



How does flux residue build-up affect the reliability and performance of your PWB assembly line?

ALPHA® AutoClean 40 Aqueous Electronics Cleaner is specially formulated to efficiently remove pre and post soldering flux residues from flux spray equipment, ovens, pallets, carriers, jigs and printed circuit assemblies. This product is a carefully researched blend of synergistic surfactants and emulsifiers that ensures excellent cleaning and inhibition of re-deposition of dissolved soils.

## ALPHA AutoClean 40 Performance

Condition	Possible Causes	Resulting in:	ALPHA AutoClean 40 Impact
<b>Excess residue build-up on fluxer</b>	<ul style="list-style-type: none"> <li>• Use of rosin-containing fluxes</li> <li>• No robust cleaning program</li> </ul>	<ul style="list-style-type: none"> <li>• Non-optimal fluxer performance</li> <li>• Increased down-time for maintenance</li> </ul>	<ul style="list-style-type: none"> <li>• AutoClean 40 can eliminate all residue on and around the spray fluxer</li> </ul>
<b>Current cleaner not effective</b>	<ul style="list-style-type: none"> <li>• IPA or saponifier not able to quickly dissolve residue</li> </ul>	<ul style="list-style-type: none"> <li>• More time spent on cleaning</li> </ul>	<ul style="list-style-type: none"> <li>• More effective than IPA</li> <li>• More versatile than solvent-based cleaners or saponifiers</li> </ul>
<b>Flux residue build-up on selective soldering pallets</b>	<ul style="list-style-type: none"> <li>• Elevated lead-free processing temperatures</li> <li>• Use of rosin-containing fluxes</li> <li>• No robust cleaning program</li> </ul>	<ul style="list-style-type: none"> <li>• Liquid flux build-up on board</li> <li>• Reduced board reliability</li> <li>• Lower yield</li> </ul>	<ul style="list-style-type: none"> <li>• Quickly achieve 100% clean pallets with minimal cleaning time</li> <li>• Significantly improve pallet-board contact by removing flux build-up</li> </ul>
<b>Concern about operator safety</b>	<ul style="list-style-type: none"> <li>• IPA or alcohol-based cleaners used on warm equipment</li> <li>• Ultrasonic equipment used for pallet cleaning</li> </ul>	<ul style="list-style-type: none"> <li>• Potentially dangerous working conditions</li> <li>• Lost time due to an accident</li> </ul>	<ul style="list-style-type: none"> <li>• Aqueous, non flammable formulation allows use on warm equipment</li> <li>• Ultrasonic equipment can be used to decrease cleaning time</li> <li>• Non-acidic formulation, containing no CFCs or chlorinated solvents</li> </ul>

## ALPHA AutoClean 40 Applications

PROCESS TYPE	CONCENTRATION RANGE	TEMPERATURE RANGE	RINSE/DRY
Immersion, Agitation	100%	ambient–100°F (38°C)	DI/Air performance
Immersion, Soak	100%	ambient–100°F (38°C)	DI/Air
Immersion, Ultrasonics	100%	ambient–100°F (38°C)	DI/Air
Manual Wipe	100%	ambient–100°F (38°C)	Optional

