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TECHNICAL BULLETIN

ALPHA® AUTOCLEAN 40

Aqueous Electronics Cleaner

DESCRIPTION

ALPHA AutoClean 40 is an aqueous flux removal fluid designed for use at full strength. It is available in conveniently sized stacking drums. It has been formulated for efficient removal of pre and post soldering flux residues from flux spray equipment, ovens, pallets, carriers, jigs, and printed circuit assemblies. This water-based product is a carefully researched blend of synergistic surfactants and emulsifiers. These ensure efficient cleaning and inhibition of re-deposition of dissolved soils. It does not rely only upon simple saponification.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- Highly effective for cleaning flux spray nozzles, ovens, selective soldering pallets, and other equipment
- Does not contain CFC's or chlorinated solvents
- Water-Based
- Excellent efficacy even at ambient temperatures
- Non Acidic
- Efficiently removes high-rosin flux residues
- Environmentally friendly
- Non-Flammable
- Low Cost of Ownership
- Low viscosity
- Rinse with DI water

PRODUCT INFORMATION

Appearance:	Clear colorless liquid*
Flash Point, °F:	None to boiling
Specific Gravity:	1.0 @ 20 °C
pH:	< 12

* If stored above 77°F (25°C), the product can become cloudy. Simply shake thoroughly before use.

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APPLICATION GUIDELINES

- ALPHA AutoClean 40 should be used as received at 100% concentration.
- Effective at ambient temperatures, performance is optimum at 100 °F (38 °C).
- For batch cleaning, ALPHA AutoClean 40 should be used in a tank designed for aqueous processing.
- ALPHA AutoClean 40 is compatible with most common equipment materials. Not recommended for cleaning aluminum parts.
- High solids rosin based flux materials (such as ALPHA EF-10000) will typically be removed in approximately 3 minutes with agitation* provided by circulation pumps or ultrasonics.
- Rinse cycles can be done with city water with a final rinse cycle in DI water.
- Parts can be dried with hot or circulating air.

* *AutoClean 40 may exhibit foaming when used in some spray cleaning equipment.*

Suggested Process Parameters:

Process Type	Concentration Range	Temperature Range	Rinse / Dry
Immersion, Agitation	100%	Ambient to 100 °F (38 °C)	DI / Air
Immersion, Soak	100%	Ambient to 100 °F (38 °C)	DI / Air
Immersion, Ultrasonics	100%	Ambient to 100 °F (38 °C)	DI / Air
Manual Wipe	100%	Ambient to 100 °F (38 °C)	Optional

The above conditions are meant to be starting ranges. Process parameters may be increased or decreased as needed depending on the specific parts and soils involved. Your Alpha Applications Engineer or Sales Representative can assist you in optimizing your process parameters.

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SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available at AlphaAssembly.com**

STORAGE

ALPHA AutoClean 40 has a shelf-life of 1080 days if stored in unopened containers in a cool, dry location between 5 to 30 °C.

CONTACT INFORMATION

To confirm this document is the most recent version, please contact Assembly@MacDermidAlpha.com

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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