

ALPHA[®] BC-3300 Semi-Aqueous Electronics Cleaner

DESCRIPTION

ALPHA BC-3300 is a semi-aqueous board cleaner with a superior strength solvent blend specially designed for removal of rosin, no-clean, tacky and lead-free flux, adhesives, and assembly residues from through-hole, hybrid and surface mount electronics. **ALPHA BC-3300** is easy to use and can be used as received and heated from 120 to 150°F (49 – 66°C). It can be applied by spray-under-immersion, immersion, ultrasonics and hand-wipe methods. A water rinse is used to remove all traces of soils and cleaner residues. Following rinsing, a hot air drying process is usually initiated.

FEATURES & BENEFITS

- Use in manual or mechanical applications
- Superior strength
- Multi-metal safe
- Safe on copper and aluminum
- Safe on ferrous and precious metals
- No HAP's
- No SARA 313's
- Low odor

PHYSICAL PROPERTIES

<u>Appearance:</u>	Clear Straw Liquid	<u>pH 100%:</u>	9.6-10.4
<u>Odor:</u>	Alcohol	<u>pH 10%:</u>	N/A
<u>Specific Gravity:</u>	1.04-1.06	<u>VOC, 100%:</u>	1034.9 g/L
<u>Weight/gallon:</u>	8.75 pounds	<u>VP of VOC Comp.:</u>	0.19 mmHg at 20°C
<u>Flash Point, °F:</u>	180 (COC)	<u>Water Solubility:</u>	Complete
<u>Boiling Point, °F/C:</u>	302/150	<u>COD, 0.25% conc.:</u>	5070 ppm

GUIDELINES FOR SUCCESSFUL USE

- Effective at temperatures up to 150°F (66°C).
- Best results are obtained when parts are completely immersed in **ALPHA BC-3300**.
- A water rinse is recommended to remove all traces of soil and cleaner residues.
- Dry parts with warm or circulating air.

APPLICATION

Suggested Process Parameters:

<u>Process Type</u>	<u>Concentration Range</u>	<u>Temperature Range</u>	<u>Rinse/Dry</u>
Spray; Stencil (SUI)	100%	100-120°F (38-49°C)	Optional/Air
Immersion, Agitation	100%	ambient to 150°F (66°C)	IPA, Water/Air
Immersion, Soak	100%	ambient to 150°F (66°C)	IPA, Water/Air
Immersion, Ultrasonics	100%	ambient to 150°F (66°C)	IPA, Water/Air
Manual Wipe	100%	ambient	Air

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 Cookson Electronics Applications Engineer or Sales Representative can assist you in optimizing your process parameters.

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COMPATIBILITY

ALPHA BC-3300 is safe for use on yellow metals including copper, bronze and brass, aluminum alloys, iron, steel and composites in addition to most precious metals, plastics and rubbers. It is safe to use with PVDF, Kalrez[®], Teflon and ceramic elastomers and filters, while it is best used in polypropylene or stainless equipment.

APPLICATION NOTES

Rinsing and Drying:

- A water rinse will remove all traces of cleaner residues.
- If rinsing is desired, use deionized (DI) or reverse osmosis (RO) water.

Bath Life:

Bath life studies show high loading capacity. This equates to long tank life, low maintenance costs and reduced waste generation and chemical consumption.

Maintenance Methods:

ALPHA BC-3300 is used as received. No further dilution is necessary. Most soils will be removed by dissolution. This will contaminate the bath. Once the bath becomes too dirty, it will stop cleaning. At that time, it should be replaced with fresh product.

ENVIRONMENTAL, HEALTH AND SAFETY

ALPHA BC-3300 is a combustible, non-corrosive solvent with 1034.8 g/L VOC at 100%. It contains no CFC's or HAP's. Refer to the Material Safety Data Sheet for more information.

STORAGE AND HANDLING

All ingredients in this product are TSCA listed. It is a combustible, non-corrosive liquid. Packaged in polyethylene containers with the seal unbroken, **ALPHA BC-3300** has a suggested shelf-life of one year. Store out of direct sunlight at 40-100°F (4-38°C).

AVAILABILITY

ALPHA BC-3300 is available commercially in one (1) gallon, five (5) gallon and 55 gallon containers.