5768 Cleaner

For Water Removal of Rosin Flux Residue

Product Description

Kester 5768 Cleaner is a highly concentrated liquid cleaner which is added to water to make a non-foaming solution for removing rosin flux residue. The alkaline chemicals in 5768 react with rosin by a chemical conversion known as saponification to form soaps which are water soluble. The resulting rosin soap and any water soluble residue, such as activator salts, can then be rinsed away with water. 5768 possesses enhanced ability to solubilize unsaponifiable material that is normally present in rosin and in additives used in some flux or solder paste formulations. This assures excellent visual and ionic cleanliness of circuit boards after cleaning. A significant feature of this formulation is its stable composition during use at elevated temperatures such that a greatly increased operating life is achieved. This results in less frequent discharge of the wash tank for replacement with fresh solution and in a process cost reduction. Another special feature of 5768 is that unlike other saponifier products which tend to mildly etch the solder surface, it leaves joints bright and shiny after cleaning. 5768 eliminates the need for expensive, toxic and environmentally harmful solvents traditionally used for flux removal.

Performance Characteristics:

- Enhanced ability to solubilize flux residues
- Easily cleaned in water
- Effective for both rosin and water soluble flux chemistries

RoHS Compliance

This product meets the requirements of the Restriction of Hazardous Substances (RoHS) Directive, 2015/863/EU for the stated banned substances.

Physical Properties

Specific Gravity: 0.998 ± 0.005
Antoine Paar DMA 35 @ 25 °C

Amine Value: 284 ± 15 mgKOH/g
ASTM D-2076

pH (10% solution): 11.4
Hanna Instruments 8314 @ 25 °C

Flash Point: 110 °C (230 °F)

Application Notes:

5768 Cleaner is specifically designed for use in automatic in-line spray cleaning equipment but can also be used in batch type washers. Excellent cleaning is accomplished with low foaming and minimal odor. This product contains a very effective organic anti-foaming agent. No silicone defoamers or other oils which do not rinse completely from a circuit board assembly are present in the formulation. For typical applications a 5 to 10% by volume solution of 5768 is required. A higher or lower concentration may be used depending on specific production requirements. How much 5768 will be used depends on the specific flux or solder paste formulation, the solids content of the rosin flux, the solution temperature and efficiency of the cleaning equipment. The detergency action of 5768 allows its use to assist in the removal of organic water soluble fluxes when increased cleaning efficiency or lower surface tension are desired. 5768 is not compatible with PVC or CPVC. As a general guideline, the following table shows the recommended temperature range and concentration of 5768.

Application	Concentration (% by volume)	Temperature
In-line Cleaner		
Solder Paste	8 to 12	49 to 71 °C (120 to 160 °F)
Liquid Rosin Flux	5 to 10	49 to 71 °C (120 to 160 °F)
Organic Water Soluble Flux	1 to 2	49 to 71 °C (120 to 160 °F)
Batch Cleaner		
Solder Paste and Liquid Flux	4 to 5	43 to 65 °C (110 to 150 °F)
Organic Water Soluble Flux	1 to 2	43 to 65 °C (110 to 150 °F)

Cleaning

Deionized water is recommended for the wash solution and rinse tank section of in-line spray cleaning equipment. Use of hard or high mineral content tap water will reduce cleaning efficiency and cause scale build up in the cleaning equipment. There will also be increased consumption of 5768 because the saponifier will react with the minerals in hard tap water.

Disposal

5768 does not contain phosphates, dichromates, caustic soda, inorganic salts, terpenes or halogenated hydrocarbon solvents. The spent cleaning solution is biodegradable. However, the water may contain some lead. Local regulations should be consulted for limitations on such factor as pH, solids content, COD level and metals percentage.

Storage, Handling and Shelf Life

5768 is flammable. Store away from sources of ignition. Shelf life is 2 years from the date of manufacture when handled properly and held at 10 to 25 °C (50 to 77 °F).

Health and Safety

This product, during handling or use, may be hazardous to your health or the environment. Read the Safety Data Sheet and warning label before using this product. Safety Data Sheets are available at https://www.kester.com/downloads/sds.

Contact Information

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

North America	Asia Pacific	Europe
800 West Thorndale Avenue Itasca, IL USA 60143 Phone: +1 800.2.KESTER	8/F., Paul Y. Centre 51 Hung To Road Kwun Tong, Kowloon, Hong Kong Phone: +852.3190.3100	Ganghofer Strasse 45 82216 Gernlinden, Germany Phone: +49 (0) 8142 4785 0

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