kester® Technical Data Sheet

5252 Cleaner

Product Description

Kester 5252 is a halogen-free solvent developed for cleaning applications. 5252 is not ozone depleting and is environmentally friendly. It is a suitable substitute for chlorinated solvents used in cleaning applications where fast air drying is critical.

5252 is most effective as a solvent to clean stencils efficiently. It also readily dissolves misprinted solder paste, wave soldered flux residues and other organic contaminants from electronic assemblies. 5252 provides rapid, effective and safe cleaning action. This cleaning solvent is a non-ionic and relatively non-toxic liquid with a mild odor..

Performance Characteristics:

- Excellent cleaning efficiency at ambient temperature
- Ideal for stencil cleaning
- Fast evaporation rate which reduces process time
- Ozone-safe with an excellent O.D.P. value of zero which complies to the Montreal Protocol Regulations
- Non-ionic and non-corrosive
- Non-carcinogenic and relatively non-toxic

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: 0.788 ± 0.005
Anton Paar DMA @ 25°C

Percent Solids (typical): 50%
Tested to J-STD-004, IPC-TM-650, Method 2.3.34

Flash Point (T.C.C.): 9°C (48°F)

Boiling Point: 82°C (180°F)

Solubility in Water: 100%

Evaporation Rate: >1
(butyl acetate = 1)

Odor: Alcohol-like

Application

5252 can be used as a solvent for the following applications: stencil cleaning, cleaning of misprinted assemblies, removal of post-soldering flux residues and other organic contaminants from electronic assemblies (wave-soldered and reflow processes), and general purpose cleaning.

5252 may be used at ambient temperature with ultrasonics, stencil spray equipment, or immersion agitation or manual application. When the residue has completely dissolved and is no longer visible, the residual solution is rinsed off with more solvent. The purpose is not to only dissolve the residue, but also to remove it after it is dissolved.

5252 dries fast and usually does not require any water rinse. It is recommended that after cleaning with 5252 solvent, the stencils or electronic assemblies should be dried by evaporation or solvent displacement with forced air. If additional cleanliness is required, the stencils or assemblies could be rinsed with a secondary 5252 rinse. The bath life of the cleaner solvent will depend on the cleanliness requirements. The solvent should be replaced at regular intervals in order to avoid solvent contamination.

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Material Compatibility

5252 solvent would have similar compatibility with the stencils, printed circuit board assemblies, components and markings used in the electronics industry as traditional halogenated and alcohol cleaning solvents. Like any cleaner, it should be tested on a non-critical area to determine plastics compatibility prior to use.

Material	Compatibility
304 Stainless Steel	Good
316 Stainless Steel	Good
ABS Plastic	Good
Aluminum	Excellent
Brass	Excellent
Bronze	Excellent
Carbon Graphite	Excellent
Carbon Steel	Excellent
Copper	Excellent
Epoxy	Good
Fluorcarbon	Good
LDPE	Good
Natural Rubber	Not Compatible
Neoprene	Not Compatible
Nylon	Good
Polycarbonate	Not Compatible
Polypropylene	Good
Polyurethane	Not Compatible
PVC	Good
Silicone	Not Compatible

Storage, Handling and Shelf Life

5252 is flammable. Store away from sources of ignition. Shelf life is 2 years from the date of manufacture when handled properly and held at 10-25°C (50-77°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.

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