

CHEMTRONICS

Technical Data Sheet

TDS # 1050E

Freez-It[®]

PRODUCT DESCRIPTION

Freez-It[®] is engineered for locating thermal intermittent electrical components and cooling printed circuit boards. This circuit refrigerant system is nonflammable, residue-free and provides fast cooling action.


- Nonflammable
- High heat transfer
- Low static generation
- Noncorrosive
- Lowers temperature to -60°F (51°C)
- Ultra pure, filtered to <0.2 microns
- Leaves no residue
- Nonabrasive on most surfaces
- Contains no CFCs or HCFCs

TYPICAL APPLICATIONS

Freez-It[®] can be used to:

- Cool Equipment for Testing
- Dissipate Heat While Soldering or Desoldering
- Isolate Thermal Intermittent Components
- Test Circuit Traces for Continuity
- Test Printed Circuit Boards for Stress Fractures
- Track Intermittent Failures and Shorts

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

| | |
|---|---|
| Boiling Point | -15.7°F |
| Vapor Density (air=1) @ 77°F | 3.18 |
| Solubility in Water @ 77°F /1 atm | 0.10% by weight |
| Specific Gravity (water = 1 @77°F) | 1.21 |
| Evaporation Rate (butyl acetate=1) | >1 |
| Appearance | Clear, Colorless Liquified Gas |
| Odor | Slight Ethereal |
| Surface Tension (dynes/cm @ 77°F) | 7.8 |
| Flash Point (TCC) | None |
| Shelflife | 5 years |
| RoHS/WEEE Status |  |

COMPATIBILITY

Freez-It[®] is generally compatible with most materials used in printed circuit board fabrication, including sensitive plastics and compounds. With any circuit refrigerant, compatibility must be determined on a non-critical area prior to use.

| <u>Material</u> | <u>Compatibility</u> |
|-----------------|----------------------|
| Buna-N | Fair |
| Graphite | Good |
| HDPE | Good |
| LDPE | Good |
| Lexan™ | Poor |
| Neoprene | Good |
| Cross-Linked PE | Good |
| Polyacrylate | Poor |
| Polystyrene | Good |
| PVC | Good |
| Silicone Rubber | Fair |
| Teflon™ | Good |
| Viton™ | Poor |

TECHNICAL & APPLICATION ASSISTANCE

Chemtronics provides a technical hotline to answer your technical and application related questions. The toll free number is:

1-800-TECH-401.

ENVIRONMENTAL IMPACT DATA

| ENVIRONMENTAL IMPACT DATA | | | |
|---------------------------|------|-----|--------|
| CFC | 0.0% | VOC | 0.0% |
| HCFC | 0.0% | HFC | 100.0% |
| CL Solv. | 0.0% | ODP | 0.0 |

CFC, HCFC, CL. SOLV., VOC, and HFC numbers shown are the content by weight. Ozone depletion potential (ODP) is determined in accordance with the Montreal Protocol and U.S. Clean Air Act of 1990. The ODP of this product is 0.0. It is the sum of the ODP of the substances that may contribute to the depletion of stratospheric ozone, based upon the weight of each substance in the product's formulation.

NOTE:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

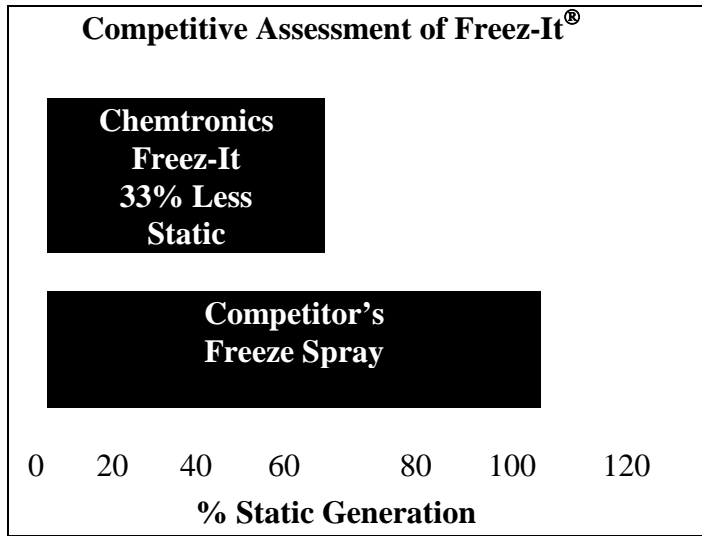
CHEMTRONICS

8125 COBB CENTER DRIVE

KENNESAW, GA 30152

1-770-424-4888

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USAGE INSTRUCTIONS

For industrial use only.

Read MSDS carefully prior to use.

No special surface preparation is required prior to using Freez-It®. Direct spray onto the area to instantly cool components, circuit boards or adhesives. For optimum performance and pin point control, use

Freez-It® with the attached extension tube.

AVAILABILITY

ES1050E 10 oz. Aerosol

ES1550E 15 oz. Aerosol

DISTRIBUTED BY: