

Freez-It® Antistat

Product# ES1051, ES1551

Product Description

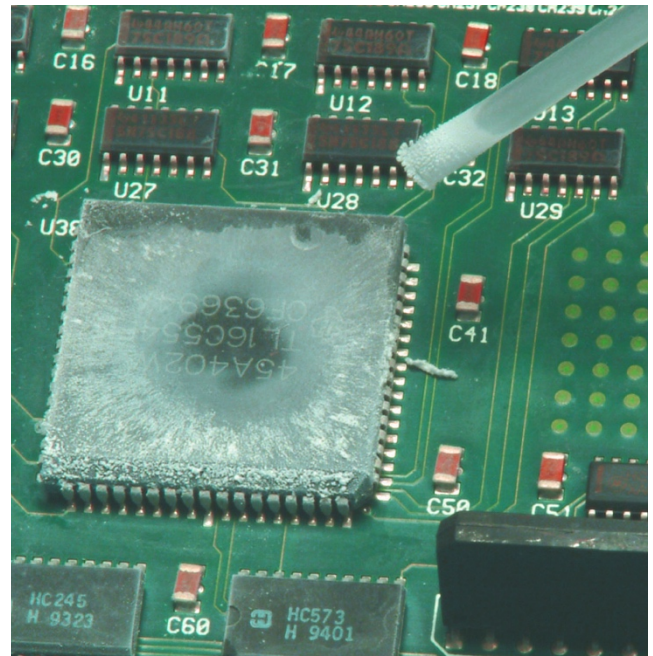
Freez-It Antistat is engineered for locating thermal intermittent electrical components or cooling printed circuit boards with minimal static generation. This circuit refrigerant system is nonflammable, residue-free and provides fast cooling action.

- Minimal static generation
- 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
- Dries fast
- Contains no CFCs or HCFCs

Typical Applications

Freez-It Antistat 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 Static Sensitive Components



Typical Product Data and Physical Properties

Boiling Point:	-15.7°F / -26.5°C
Vapor Density (air=1):	3.18
@77°F	
Solubility in Water:	1.0% by weight
@77°F/1 atm	
Specific Gravity:	1.21
(water = 1@77°F)	
Surface Tension:	7.8
(dynes/cm @ 21.6°F)	
Flash Point (TCC):	None
Evaporation Rate:	>1
(butyl acetate =1)	
Appearance:	Clear, colorless liquified gas
Odor	Slight ethereal
Shelflife	10 years
RoHS Compliant	Yes



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Compatibility

Freez-It Antistat 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.

Material	Compatibility
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

Availability

ES1051	10 oz. / 283 g Aerosol
ES1551	15 oz. / 425 g Aerosol

Environmental Impact Data

CFC	0.0%
HCFC	0.0%
CL Solv.	0.0%
VOC	0.9%
HFC	99.1%
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.

Technical and Application Assistance

Chemtronics provides a technical hotline to answer your technical and application related questions.

The toll free number is: 1-800-TECH-401.

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.

Competitive Assessment of Freez-It Antistat

Chemtronics
Freez-It Antistat
56% Less Static

40 v/in.

Competitor's Antistat Freeze Spray

90 v/in.

0 20 40 60 80 100 120

% Static Generation (V/IN.)

Usage Instructions

For industrial use only. Read SDS carefully prior to use.

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