Arctic Storm™ Freeze Spray

Product# ES1056

Product Description

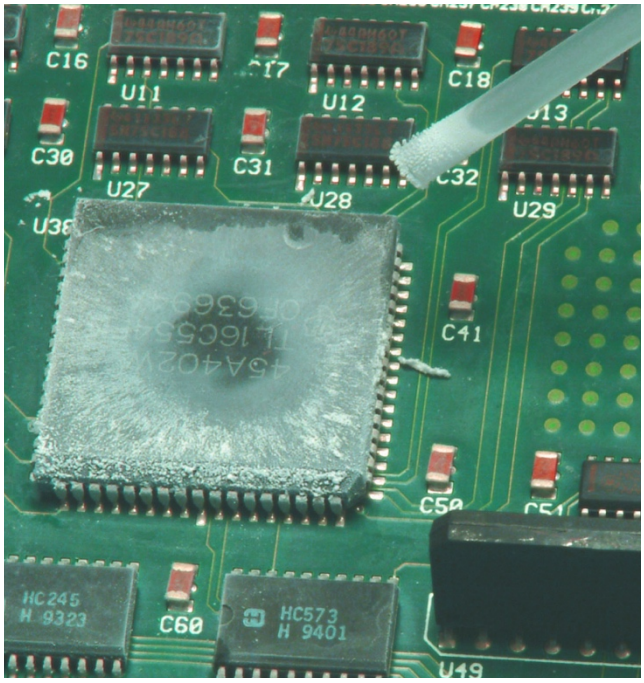
Arctic Storm Freeze Spray is specifically designed for cooling large areas of a printed circuit board at once to locate thermally intermittent sections. Utilizing an ultra-low global warming potential coolant, this product offers the best cooling possible with the lowest global warming impact available. Arctic Storm Freeze Spray is nonflammable, residue-free and provides very fast cooling action.

- Cools surfaces to below -49°F / -45 °C
- Wide spray for whole board cooling
- Ultra-low global warming impact below 1
- Nonflammable
- High heat transfer
- Noncorrosive
- Ultra-pure, filtered to <0.2 microns
- Leaves no residue
- Nonabrasive on most surfaces
- CFC, HCFC and HFC free
- VOC free

Typical Applications

Arctic Storm Freeze Spray 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:	-2 °F / -19 °C
Cools To:	-49 °F / -45 °C
Vapor Density (air=1): @77°F	4.0
Solubility in Water: @70°F/1 atm	>0.10% by weight
Specific Gravity: (water = 1@70°F)	1.17
Internal Pressure: (water = 1@77°F)	47 psia @ 70 °F
Flash Point (TCC):	None
Evaporation Rate: (butyl acetate =1)	>1
Appearance:	Clear, colorless liquified gas
Odor	Slight ethereal
Shelflife	10 years
RoHS Compliant	Yes

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Compatibility

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Material	Compatibility
Buna-N	Good
Graphite	Excellent
HDPE	Fair
LDPE	Fair
Lexan	Good
Neoprene	Good
Cross-Linked PE	Good
Polyacrylate	Good
Polystyrene	Good
PVC	Good
Silicone Rubber	Fair
Teflon	Fair
Viton	Poor

Usage Instructions

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

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

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Availability

ES1056 10 oz. / 283 g Aerosol

Environmental Impact Data

CFC	0.0%
HCFC	0.0%
CL Solv.	0.0%
VOC	0.0%
HFC	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. VOC consideration is based on the materials being not photochemically reactive by Commonly Used Standards (material supplier).

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.