

CHEMTRONICS

Technical Data Sheet

TDS # 1056

Arctic Storm™ Freeze Spray

PRODUCT DESCRIPTION

Arctic Storm™ Freeze Spray is specifically designed for cooling large areas of a printed circuit board at once to locate thermally in 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 of 6
- 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

COMPATIBILITY

Arctic Storm™ Freeze Spray 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.

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Boiling Point	-2 °F / -19 °C
Cools To:	-49 °F / -45 °C
Vapor Density (air=1) @ 70°F	4.0
Solubility in Water @ 70°F / 1 atm	>0.10% by weight
Specific Gravity (water = 1 @70°F)	1.17
Evaporation Rate (butyl acetate=1)	>1
Appearance	Clear, Colorless Liquified Gas
Odor	Slight Ethereal
Internal Pressure	47 psia @ 70 °F
Flash Point (TCC)	None
Shelflife	5 years
RoHS/WEEE Status	

<u>Material</u>	<u>Compatibility</u>
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 MSDS 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.

AVAILABILITY

ES1056 10 oz. Aerosol

DISTRIBUTED BY:

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

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

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.

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