

Freeze Sprays

Chemtronics® Freeze Sprays are exceptionally pure, nonflammable and provide instantaneous freezing action while leaving no residue. Conveniently packaged and designed for either pinpoint or full board application, these non-reactive circuit refrigerants vaporize instantly while cooling targeted areas. They are used to:

- Test for and locate thermal intermittent components and systems
- Provide heat sink protection for heat sensitive components during soldering and desoldering
- Perform low temperature testing of prototype circuitry and electromechanical systems
- Locate hairline cracks in stressed traces of PC board
- Freeze adhesives for quick removal



Freez-It®

High-performance, pinpoint-accurate freeze spray for isolating individual components on PC boards

- Pinpoint spray isolates individual components without freezing surrounding areas
- Safe on plastics
- Nonflammable
- Filtered to 0.2 microns

ES1050 10 oz / 283 g aerosol
ES1550 15 oz / 425 g aerosol

Freez-It® Antistat

High-performance, pinpoint-accurate freeze spray that safely cools individual static-sensitive components



- Pinpoint spray isolates individual components without freezing surrounding areas
- Antistatic formulation ideal for use on static sensitive components
- Non-frosting
- Safe on plastics
- Nonflammable
- Filtered to 0.2 microns

ES1051 10 oz / 283 g aerosol
ES1551 15 oz / 425 g aerosol

Arctic Blast™

Ultra-low GWP freeze spray with pin-point accuracy for isolating individual components

- Ultra-low Global Warming Potential
- Pinpoint spray isolates individual components without freezing surrounding areas
- Safe on plastics
- Nonflammable
- Filtered to 0.2 microns

ES1054 10 oz / 283 g aerosol

Arctic Blast™ Antistat

Ultra-low GWP antistatic freeze spray with pin-point accuracy for isolating individual components



- Ultra-low Global Warming Potential
- Pinpoint spray isolates individual components without freezing surrounding areas
- Antistatic formulation ideal for use on static sensitive components
- Non-frosting
- Safe on plastics
- Nonflammable
- Filtered to 0.2 microns

ES1055 10 oz / 283 g aerosol

Freeze Spray

Economical, general purpose freeze spray with wide spray for cooling entire PC boards

- Wide spray for cooling entire boards
- Safe on plastics
- Nonflammable
- Filtered to 0.2 microns

ES1052 10 oz / 283 g aerosol

Arctic Storm™

Ultra-low GWP freeze spray with wide spray for cooling entire PC boards

- Ultra-low Global Warming Potential
- Wide spray for cooling an entire board
- Safe on plastics
- Nonflammable
- Filtered to 0.2 microns

ES1056 10 oz / 283 g aerosol



Arctic Blast™ and Arctic Storm™ Freeze Sprays are formulated with HFO-1234ze, a new material that has a significantly lower global warming potential (GWP) than HFC-134a. This new material has a GWP of 6, and compares very favorably to HFC-134a (GWP of 1300). It is also VOC-free, so will not contribute to smog.

Product Selection Guide

Product	Application	Global Warming Potential*	Volatile Organic Compound**	Frost Formation	Cooling Speed	Cooling Temperature
Arctic Blast™	Pinpoint	6	0%	Yes	Fast	-49°F/-45°C
Arctic Blast™ Antistat	Pinpoint	6	<1%	No	Fast	-49°F/-45°C
Arctic Storm™	Wide Area	6	0%	Yes	Very Fast	-49°F/-45°C
Freeze-It®	Pinpoint	1300	0%	Yes	Fast	-60°F/-51°C
Freeze-It® Antistat	Pinpoint	1300	<1%	No	Fast	-60°F/-51°C
Freeze Spray	Wide Area	1300	0%	Yes	Very Fast	-60°F/-51°C

* Global warming potential (GWP) is calculated based on a 100 year time horizon. Carbon dioxide has a GWP of 1.

** VOC is the Volatile Organic Compounds content by weight.

ASK THE EXPERTS!

Chemtronics has application specialists standing by to identify the best solution for you. Call 800-645-5244 or e-mail askchemtronics@chemtronics.com.

