



NEW!

Arctic Blast™ and Arctic Storm™

New Ultra-Low Global Warming Freeze Spray

Responding to the new global warming regulations has just become much easier. Arctic Blast™ and Arctic Storm™ Freeze Sprays are the newest class of circuit coolants from ITW Chemtronics®, specifically formulated to quickly cool surfaces while minimizing the use of global warming compounds.

ITW Chemtronics®
Nothing Cleans Like Chemtronics

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

Arctic Blast™

The 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
- Ozone safe
- Filtered to 0.2 microns

ES1054 10 oz. aerosol

Arctic Blast™ Antistat

The 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
- Ozone safe
- Filtered to 0.2 microns

ES1055 10 oz. aerosol

Arctic Storm™

The ultra-low GWP freeze spray with a wide spray for cooling entire PC boards

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

ES1056 10 oz. aerosol

Freez-It®

The 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
- Ozone safe
- Filtered to 0.2 microns

ES1050 10 oz. aerosol
ES1550 15 oz. aerosol

Freez-It® Antistat

The 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
- Ozone safe
- Filtered to 0.2 microns

ES1051 10 oz. aerosol
ES1551 15 oz. aerosol

Freeze Spray

The economical, general purpose freeze spray with a wide spray for cooling entire PC boards

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

ES1052 10 oz. aerosol



NEW!

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 previously used materials. This new material has a GWP of 6, and compares very favorably to HFC-134a (GWP of 1300) and HFC-152a (GWP of 140). In addition, since it has a short atmospheric lifetime with a very low photochemical ozone creation potential, it is not expected to be classified as a VOC.

Product Selection Guide

Product	Application	Global Warming Potential*	Volatile Organic Compound**	Frost Formation	Cooling Speed	Cooling Temperature
Arctic Blast™	Pinpoint	6	0.0%	Yes	Fast	-49°F/-45°C
Arctic Blast™ Antistat	Pinpoint	6	0.9%	No	Fast	-49°F/-45°C
Arctic Storm™	Wide Area	6	0.0%	Yes	Very Fast	-49°F/-45°C
Freeze-It®	Pinpoint	1300	0.0%	Yes	Fast	-60°F/-51°C
Freeze-It® Antistat	Pinpoint	1300	0.9%	No	Fast	-60°F/-51°C
Freeze Spray	Wide Area	1300	0.0%	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.



ITW Chemtronics® — Offering you the right products for your applications.

Still not sure which product is right for your application? ITW Chemtronics' sales and technical services staff are ready with expert guidance on product selection — ensuring that you have the information necessary to make the right choice.

Call your local ITW Chemtronics sales representative for expert guidance with your application needs.

Need Technical Information?

Call our Technical Hotline at 1-770-424-4888 ext 137 or e-mail us at AskChemtronics@chemtronics.com

Visit us on the web at www.chemtronics.com



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