



## Freezer Product# 1672

### Product Description

Rapidly evaporating liquid that super-chills isolated areas. Used as a troubleshooting aid for intermittently faulting capacitors, resistors, semiconductors, and other defective components. It also increases visibility of cold solder joints, cracks in printed circuit boards and oxidized junctions.

### Features / Benefits

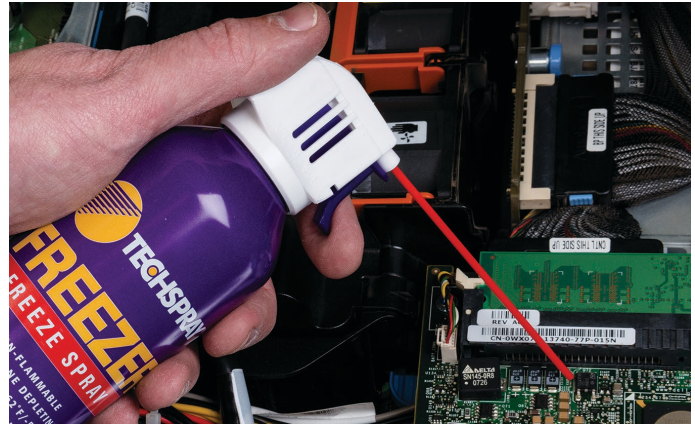
- 100% pure HFC-134a
- Nonflammable
- Non-ozone depleting
- Moisture free
- Zero residue
- Safe on plastics
- VOC exempt
- Chills down to -60°F (-51°C)

### Applications

- 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

### Usage Instructions

Always be sure that spray head is aimed at surface to be chilled. Allow components to heat up to normal operating temperature or until intermittent fault occurs. Spray suspected component until chilled. Products will freeze small areas. Due to the colder temperature and the more aggressive nature of the product, it is possible that prolonged spraying may cause blistering of some conformal coatings or deterioration of some plastics. Always test on a inconspicuous area before using. Can crack ceramics and other temperature sensitive components.



### Typical Product Data and Physical Properties

<b>Physical state:</b>	Gas
<b>Odor:</b>	Faint ethereal odor
<b>pH:</b>	Neutral
<b>Percent volatile:</b>	100 at 68°F (20°C)
<b>Vapor pressure:</b>	85.8 psi at 70°F (21.1°C)
<b>Vapor density:</b>	3.5 (Air=1)
<b>Boiling Point:</b>	-15.1°F (-26.2°C)
<b>Freezing point:</b>	-149.8°F (-101°C)
<b>Solubility in water:</b>	Negligible
<b>Evaporation rate:</b>	>1 (CCL4=1)
<b>Specific gravity:</b>	1.220 (water=1) at 68°F (20°C)
<b>VOC – EPA:</b>	0%
<b>CARB:</b>	Exempt
<b>Shelf life:</b>	10 years

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### 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

### Packaging and Availability

<b>1672-10S</b>	10 oz. Aerosol
<b>1672-15S</b>	15 oz. Aerosol

### Environmental Policy

Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

### Resources

Techspray® products are supported by global sales, technical and customer services resources.

For additional technical information on this product or other Techspray® products in the United States, call the technical sales department at 800-858-4043, email [tsales@techspray.com](mailto:tsales@techspray.com) or visit our web site at: [www.techspray.com](http://www.techspray.com).

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