



Inspection - Detection



Rail Approval

## FREEZER/2

### FAULT DETECTION ON ELECTRONICS

Freezer/2 is a rapid cooling agent for locating faults in electronic components and for cooling thermally sensitive parts during soldering or calibration.

This product has been formulated without the use of any CFCs or HCFCs. EU F-Gas compliant. Non-Flammable\*.

### PRODUCT CODES / FILL SIZES



33182 / 400ml

### APPLICATIONS

Suitable for instant fault finding on electronic equipment, such as printed circuit boards, transistors, resistors, condensers and intermittent dry joint connectors.

Other useful applications for Freezer include shrink fitting of metal assemblies and embrittlement of sticky substances (e.g. chewing gum) to facilitate removal.

### DIRECTIONS

- The product should be sprayed directly onto the suspect component.
- If fault disappears, this confirms that the component is defective and should be replaced.

## TECHNICAL DATA (WITHOUT PROPELLANT)

|                          |  |
|--------------------------|--|
| Appearance               | Gas at room temperature. Produces a temporary frosted finish |
| Odour                    | Slight ethereal odour  |
| Specifications/Approvals | British Rail Catalogue No. 7/20505                           |
| SG @ 25°C                | 1.18   |
| Pressure @ 25°C          | 4.9 Bar  |
| Discharge rate           | 1.5 g/sec  |
| Temperature range        | Reduces component temperature to -50°C                       |
| Solubility               | Soluble in some solvents, insoluble in water                 |
| Flammability             | Non-flammable (according to directive 2008/47/EC)*           |
| Flashpoint               | Not applicable in sealed aerosol                             |

\* Remark regarding flammability: Although classified as nonflammable by GHS, DOT, IATA and IMDG and as measured by ASTM E-681 and ISO 10156, Solstice® Propellant (HFO-1234ze) can exhibit vapor flame limits at elevated temperatures. Solstice® Propellant has a very narrow flammable range (LFL-UFL) of 8.0-8.5 volume percent in air at one atmosphere under the following conditions:

- Temperature is 86°F (30°C), (and)
- Relative Humidity ≥50%, (and)
- High energy ignition source or open flame is present

Accordingly, CRC recommends that for use on energized electrical equipment the ambient temperature should be below 28C.

## MATERIALS COMPATIBILITY

|         |   |
|---------|---|
| OK      | - |
| CAUTION | - |
| NOT OK  | - |

## STORAGE & SHELF LIFE

The product may be stored at normal ambient temperatures and has a shelf life of not less than 6 years with correct storage. Aerosols should always be stored below 50°C, away from direct heat and naked flame.

## HEALTH AND SAFETY

A separate Safety Data Sheet (SDS) according to EC Regulation 73/404/EEC and 648/2004/EC is available from Ambersil.com or via [info.uk@crcind.com](mailto:info.uk@crcind.com)

## MISREPRESENTATION ACT 1967

## TRADE DESCRIPTIONS ACT 1968

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