



TECHNICAL DATA SHEET

ENGLISH

RS 165-4986 Minimal Charging Freezer

RS 165-4986 is a powerful non-corrosive refrigerant for use as a rapid and safe method of cooling small components, particularly in electrical and electronic equipment, and to detect faulty soldered joints and overheating components. RS 165-4986 utilises non-ozone depleting materials.

- Non-toxic and non-flammable
- Suitable for static-sensitive devices
- Rapidly lowers temperatures to -50°C
- Prevents component damage during soldering and aids in fault finding

Typical Properties

Form:	Colourless Gas
Flashpoint:	None
Boiling Point:	-26.5°C
Ozone Depleting Potential:	Zero

Packaging

Order Code

400ml Aerosol

RS 165-4986

Directions for Use

Switch on and set up equipment so that the fault conditions caused by the 'dry' joint exist. Spray each joint in the circuit with the end of the extension tube approximately one inch from the joint. Spraying should continue until a layer of 'frost' appears on the joint, usually about 2 seconds. When the 'dry' joint is frozen, the fault condition will disappear but will return as the temperature of the joint returns to normal ambient. A similar procedure is adopted for tracing faulty components that are overheating.

An alternative test method is to spray suspected faulty components until a good level of frost has been formed. The component which "defrosts" the most rapidly is the component which is overheating or faulty.

If it is necessary to cool a component for any length of time, a piece of plastic foam should be wrapped around the component and then saturated with Freezer. If the foam is periodically re-saturated the temperature of the component may be held below 0°C as long as required. Fractured copper tracks on PCBs can be located by spraying over the suspect area and the fracture will appear as the copper tracks contract and part.

Product Use

On all electrical and electronic circuitry for detection of faulty joints and overheating components, for the testing of thermostats and other thermosensitive components. RS 846-682 is particularly suitable for testing static sensitive devices as it has been specially formulated to induce the absolute minimum charge in components being tested.