



Freeze spray

KONTAKT CHEMIE Freeze 75

Description:

Cooling agent, mixture of 1,1,1,2 tetrafluoroethane and dimethyl ether

General properties and applications:

KONTAKT CHEMIE Freeze 75 consists of gases liquefied under pressure. The fluid evaporates very quickly and, in doing so, extracts heat of vaporisation from the environment. As a result, the sprayed surface cools down considerably. Freeze 75 evaporates completely and leaves no residu. Commonly used materials are not attacked. There is no explosion or flammability risk under practical application conditions.

A typical application of the product is for the location of thermal faults in electrical equipment. It is also suitable for the freeze shrinking of small components, for the removal of sticky contaminations from textiles, for the stiffening of "rubbery" materials and for the handling of histological specimens.

KONTAKT CHEMIE Freeze 75 does not contain CFC's.

Technical data

Composition		Dimethyl ether 7% 1,1,1,2-tetrafluoroethane 93%
Density at 20°C	FEA 605	1,139/cm ³
Vapour pressure at 20°C at 50°C	FEA 604 FEA 604	460 kPa 1160 kPa
Heat of vaporisation at boiling point (-25°C)	Calculated	277 J/ml
Lowest temperature achievable with glass thermometer sprayed (at 20°C ;75% rel. humidity)	In-house method	- 52°C
Flammability test	FEA 610	non-flammable



Manufactured by :
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KONTAKT CHEMIE Freeze 75 Page 2/2

Application instructions:

KONTAKT CHEMIE Freeze 75 is used for the location of thermal faults in electrical equipment. For this purpose the piece of equipment being tested is switched on. If a relatively long period of operation is expected before faults occur, the warm-up phase can be accelerated using a hair drier. When the equipment malfunctions, suspect components are purposefully sprayed with Freeze 75 and changes in operation of the equipment are observed.

Most of the time a technician has a good idea of the parts that can be responsible for the failure. One by one, these components are sprayed. By cooling down the damaged component, the failure will disappear. The equipment starts again to function normally. A faulty component can quickly be located by this method.

KONTAKT CHEMIE FREEZE 75 can be used for the shrinkage of small components. In trials it has been possible, for example, to fit ball bearings of 30 mm outside diameter into transverse press fits. In moist air an ice coating is formed on the surface during cooling. This ice coating is washed off, before the part is fitted, by using, for example, KONTAKT CHEMIE KONTAKT WL or another water-miscible solvent.

Sticky substances such as chewing gum become hard and friable when sprayed with KONTAKT CHEMIE Freeze 75. They can then be pulled off fabrics without difficulty. Release papers on self-adhesive foils can also readily be removed after a brief spraying. Freezing with KONTAKT CHEMIE Freeze 75 is also suitable for the handling of soft rubber or histological sections.

Components can be immersed in a small supply of refrigerant. Well-insulated small beakers of thick-walled Styropor® (polystyrene) are suitable as containers. These can be made, for example, from the used safety packaging of glass bottles.

When soldering with electric soldering irons, sensitive components can be protected from overheating.

KONTAKT CHEMIE Freeze 75 does not attack ordinary materials. However, parts which have a sensitive reaction to rapid changes of temperature must not be treated with the product. Freeze 75 evaporates completely. In a high humidity, dew is deposited which freezes into ice and then forms a whitish coating which disappears of its own accord.

Using the procedures described, KONTAKT CHEMIE Freeze 75 is absolutely safe from a health standpoint. The freezing agent must not however be sprayed into flames. If it should be, it would decompose into very toxic substances. In our experience there is no risk of explosion when it is used on operating electrical equipment in normal use in the electrical industry. However, because different experts give differing assessments of the ignition behaviour we recommend that you use the non-flammable KONTAKT CHEMIE Freeze 75

Super in areas where there is an increased risk.
KONTAKT CHEMIE FREEZE 75 can cause frostbite to the skin. It is therefore not suitable for the treatment of sporting injuries.

Available :
Aerosol : 200 ml, 400 ml

These values are not intended to be used as specifications. They are based on what we believe reliable. However it is the user's responsibility to determine the suitability.



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