

Insulating oil, lubricant for plastics

KONTAKT CHEMIE Silicone 72

Description:

Silicone oil (polydimethyl siloxane)

General properties and applications:

KONTAKT CHEMIE Silicone 72 is a medium-viscosity silicone oil with optimum electrical properties and excellent temperature resistance. KONTAKT CHEMIE Silicone 72 is supplied in canisters as a pure silicone oil. Depending on the application conditions, it can be used undiluted or can be diluted to the desired viscosity with a light-volatile hydrocarbon. In aerosol form, a suitable solvent has already been added (propellant: carbon dioxide).

KONTAKT CHEMIE Silicone 72 is used in the electronics industry for the elimination of insulation defects in small high-voltage transformers and coils (e.g. line transformers in TV sets). The silicone oil penetrates very quickly into the coils. Compared with other fluids, it has an extraordinarily high dielectric strength.

KONTAKT CHEMIE Silicone 72 is also suitable as a lubricant for many plastics. In this capacity it does not attack sensitive materials and has a negligible contaminating effect. It can also be used for improving the gliding properties of paper, cardboard, wood etc. Because of its excellent temperature stability it can be used, for example, for the lubrication of paper pressure pads in the fixing units of laser printers and copiers. In particular cases it can also be used for metals, particularly when only a small change in viscosity is required over a wide temperature range.

Technical data

Properties of the aerosol		
Density at 20°C	FEA 605	0,78 g/cm ³
Colour		colourless, transparent
Flash point	DIN 51755	< 0°C
Silicone oil content	In-house method	45%
Solvent evaporation rate	DIN 53170	Ca. 1,2

Properties of the active ingredient = concentrate		
Density at 20°C	ASTM D 891	0,97 g/cm ³
Colour		Colourless transparent
Temperature resistance	In-house method	-50°C to 160° when air excluded up to 250°C
Flash point	ASTM D 56	Ca. 300°C
Kinematic viscosity at 25°C	DIN 51562 T1	1000 mm ² /s
Setting point		-50°C
Dielectric strength	DIN 53481	12 kV/mm
Volume resistivity	DIN 53482	10 ¹⁴ Ω x cm
Dilution ratio for bulk supply Silicone 72 + Cleaner 601		1 part per vol. Silicone 72 + 1 part per vol. Cleaner 610

Application instructions:

The easiest way to apply KONTAKT CHEMIE Silicone 72 is from the aerosol can. The spray contains an inflammable solvent, therefore it must not be used on live electrical equipment. Sources of ignition must be avoided. For relatively large-scale applications or when the inflammable solvent presents a problem, the product may also be used in bulk form which, when undiluted, has a very high flash point. If hydrocarbons with a higher flash point than the specified Cleaner 601 are used for the dilution, provision needs to be made for a much longer drying time. KONTAKT CHEMIE Silicone 72 is a very efficient release agent for lacquer, adhesive etc, and must not therefore be applied to parts in regions where such substances are being applied. Electrical contacts should also not be treated with it. The extreme insulating properties and the silicon dioxide decomposition product created by switching sparks might increase the contact resistances. Information on safety aspects can also be found in the safety datasheet.

Available

Aerosol : 200 ml
Bulk : 1 l concentrate

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



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