



This product brochure only provides a brief overview. For further information or professional advice, please contact SÄKAPHEN.



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SÄKA silicone grease 81

Erosion-proof, hydrophobic protection layer

In areas experiencing high levels of pollution, it is recommended to also apply a 0.3 mm layer of SÄKA silicon grease 81 to the insulator surfaces after cleaning, in order to prevent any flashover and serious consequences in the long term.

The SÄKA silicone grease 81, developed as a result of long-term trials, is a transparent, non-toxic substance based on pure methyl polysiloxane of a certain viscosity with low quantities of inorganic thickening agents, which has been designed with excellent application characteristics, i.e. formation of an equally thick layer upon application.

The protective grease can be used in temperatures from -40° C to +200° C. The product shows no major changes in consistency.

SÄKA silicone grease 81 is highly hydrophobic, insoluble in water and is not changed by superheated steam. The grease does not attack metal, plastic, glass or ceramics. SÄKA silicone grease has no adverse physiological effects.

Specification

Density at 20° C	approx. 1 g / cm ³
Flame point	> 300° C
Drop point acc. to Ubbelohde	up to 220° C no drop point
Acid value	approx. 0.5
Dielectric constant	about 3.0 at approx. 50 Hz and 20° C
Specific resistance	20° C = 10 ¹⁵ .. / cm
Dielectric loss factor tan at 20° C	less than 0.002
Disruptive strength at 50 Hz and 20° C	approx. 100 KV / cm
Ash content	33 %
Solidification point	approx. -40° C
Weight loss after 30 hrs. of heating to 200° C	less than 3 %

SÄKA Cleaning Paste

For detailed information, see inside this brochure



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For many years, power plants, generating stations, municipal works, steel works, railway and industrial customers have successfully used SÄKA cleaning paste for protecting ceramic, glass, plastic and metal insulators.

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SÄKA Cleaning Paste

Increasing environmental burdens

1 High voltage insulators face increasing chemical attack from flue dust, corrosive materials, salts or gaseous impurities contained in the air (sulphur oxide, hydrogen fluoride, etc.). Erosion effects damage the insulator surfaces.

Quality assurance for high-voltage insulators

2 Roughened, soiled insulators offer an ideal base for increased deposits of airborne solids.

In dry conditions, deposits reduce the insulation effect. In wet conditions, a thin water

SÄKAPHEN safeguards optimum operation

3 SÄKA cleaning paste - the result of long-term testing and trials - has been designed in such a way that a single treatment of the insulator surfaces suffices in most cases.

The SÄKA cleaning paste also removes paint that may have splashed onto the insulators during painting of the masts.

SÄKA cleaning paste ensures that even extremely soiled surfaces are easily and quickly cleaned without damaging the glazing.

The paste forms a very effective water-

Practical test results

on ceramic insulators carried out by a foreign electricity works

KV		tgδ (%)		C (pF)		GΩ	
63,5	63,5	3,52	0,042	5,29	5,29	18,8	1577
100	100	3,60	0,043	5,29	5,29	18,3	1540
130	130	3,75	0,043	5,29	5,29	17,5	1540
200	200	4,25	0,043	5,29	5,29	15,5	1540

Before After treatment with SÄKA cleaning paste

layer can form, allowing salts to settle. Once a high salt concentration has been reached, a combination with electrically conductive solids results in flashovers with disastrous consequences for the operation of the supply station.

and dirt-repelling silicone resin, offering sustained protection and additional safety by preventing the formation of conductive water layers.

SÄKA cleaning paste increases surface resistance, reducing the leakage current of overhead lines.

Cleaning involves a simple process. Using a cloth, any residual dust is wiped from the insulator surfaces. The SÄKA cleaning paste is then applied after which the insulators are polished with a duster.



For detailed information see reverse

SÄKA silicone grease 81

Effective protection for long life

SÄKAPHEN's range of products - the SÄKA cleaning paste and SÄKA silicone grease 81 - facilitates easy treatment and quick cleaning of high-voltage insulators.

The sustained protective effect prevents flashovers and guarantees extra safety.

Ensuring a safe electricity flow

SÄKAPHEN: for all high-voltage insulators