

Cleaning  
Maintenance  
Service

**Products for perfect  
soil and contamination protection**

## **Introduction**

The need of having a safer workplace in many industrial fields results in a higher number of maintenance cycles to limit accident loss times. This is where SAEKAPHEN provides significant value to the industry.

**SAEKAPHEN offers two products for cleaning and contamination protection:**

**SAEKAPHEN Cleaning Paste 80750**

**SAEKAPHEN Silicone Grease 81750**

## Introduction

**SAEKAPHEN Cleaning Paste 80750**

**SAEKAPHEN Silicone Grease 81750**

are used to

- combat the threat of strongly-soiled functional equipment or machinery
- provide a sealing function to ensure easy re-cleaning
- avoid accident loss times in functional equipment

**Both products are non-toxic (see their MSDS).**

A horizontal bar with an orange segment on the left and a blue segment on the right, located below the logo.

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## Introduction

**SAEKAPHEN Cleaning Paste 80750**  
**SAEKAPHEN Silicone Grease 81750**

are used in the following segments

- **Electricity Industry**
- **Railways**
- **Metal Industry**

# Electricity Industry



## Electricity industry

- **SAEKAPHEN Cleaning Paste 80750** protects high voltage insulators from electrical flash-over due to the combination of dust and moisture
- **SAEKAPHEN Cleaning Paste 80750** is applied on the surface of the insulator and forms a hydrophobic layer to prevent flash-over
- **SAEKAPHEN Silicone Grease 81750** is additionally recommended in areas with extremely high dust contamination



**Without SAEKAPHEN**



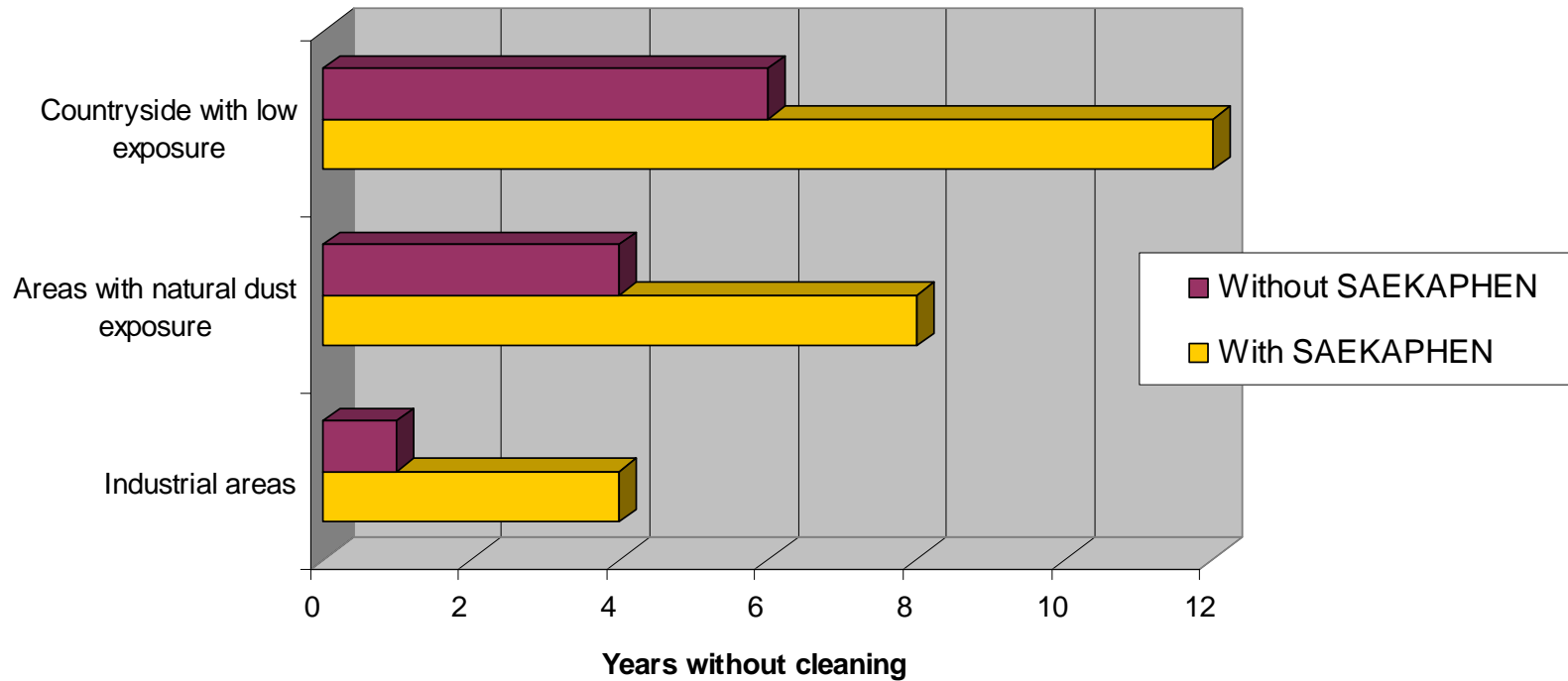
**With SAEKAPHEN**

Practicle example of a professional cleaning and sealing exercise in electrical applications

## Application areas in the electricity industry

- The main application area is the high voltage transmission network (110 kV up to 765 kV in the US), in particular in transformer stations  
**SAEKAPHEN Cleaning Paste 80750** and  
**SAEKAPHEN Silicone Grease 81750**  
ensure a reliable electricity supply through a safe electricity flow
- Electrical service devices used in the industry like transformer rectifiers and switches/switchboards are also cleaned by the two products

## Effect of SAEKAPHEN cleaning paste on cleaning cycles of high voltage insulators



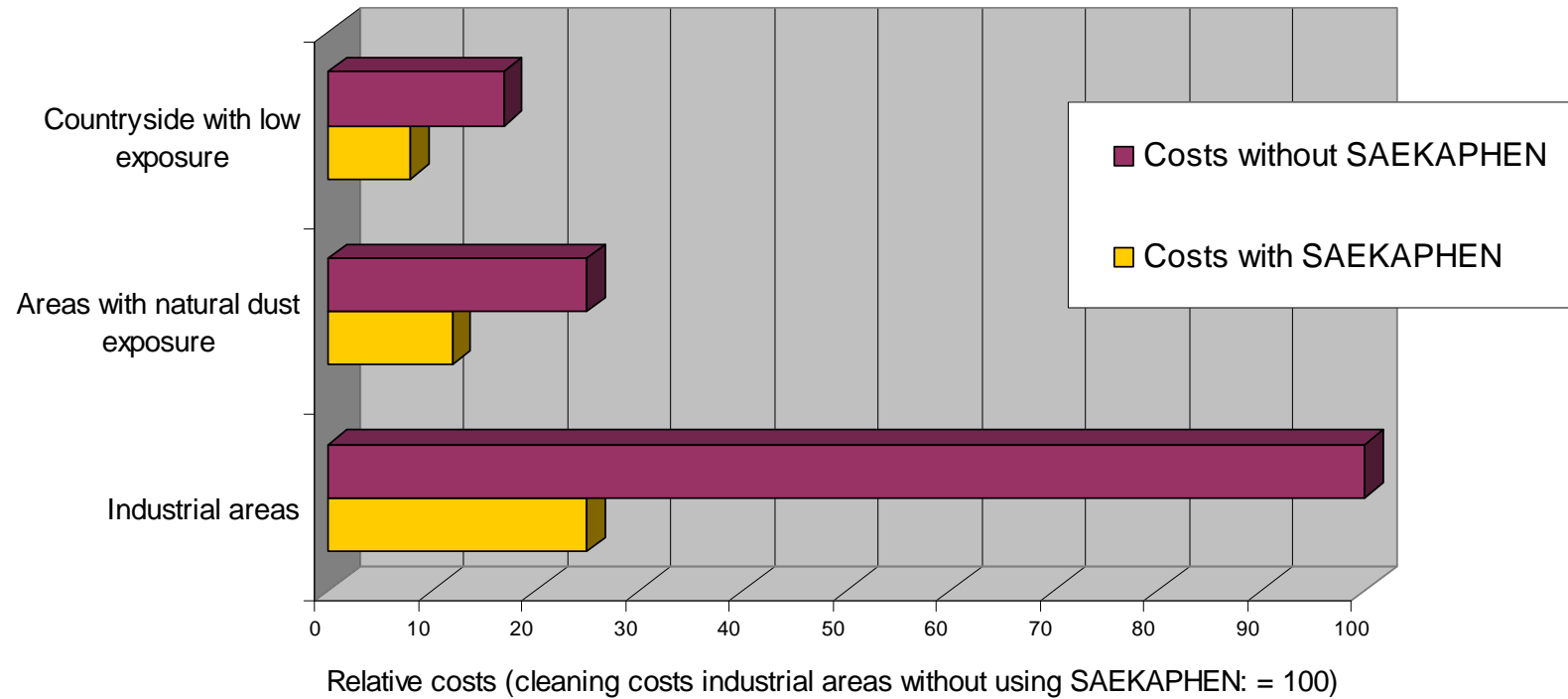
## Maintenance cycles in the electricity industry

Large electricity suppliers like E.ON in Germany use **SAEKAPHEN Cleaning Paste 80750** in combination with **SAEKAPHEN Silicone Grease 81750** in their high voltage transmission network and apply the material regularly according to their internal maintenance cycle.

The maintenance cycles are depending on the degree of contamination.



## Cleaning costs when using SAEKAPHEN products on insulators



## Commercial benefits in the electricity industry

### SAEKAPHEN cleaning agents

- ensure a higher reliability of the power transmission network due to less flash-over accidents
- reduce the cleaning cycles per time period due to the cleaning and sealing function of the **SAEKAPHEN Cleaning Paste 80750**

Both benefits overcompensate the price for the Cleaning agents used:

The use of **SAEKAPHEN Cleaning Agents** enables the industry to save **50 to 75 % of their maintenance cleaning costs** due to the lower number of cleaning cycles required.



# Railways



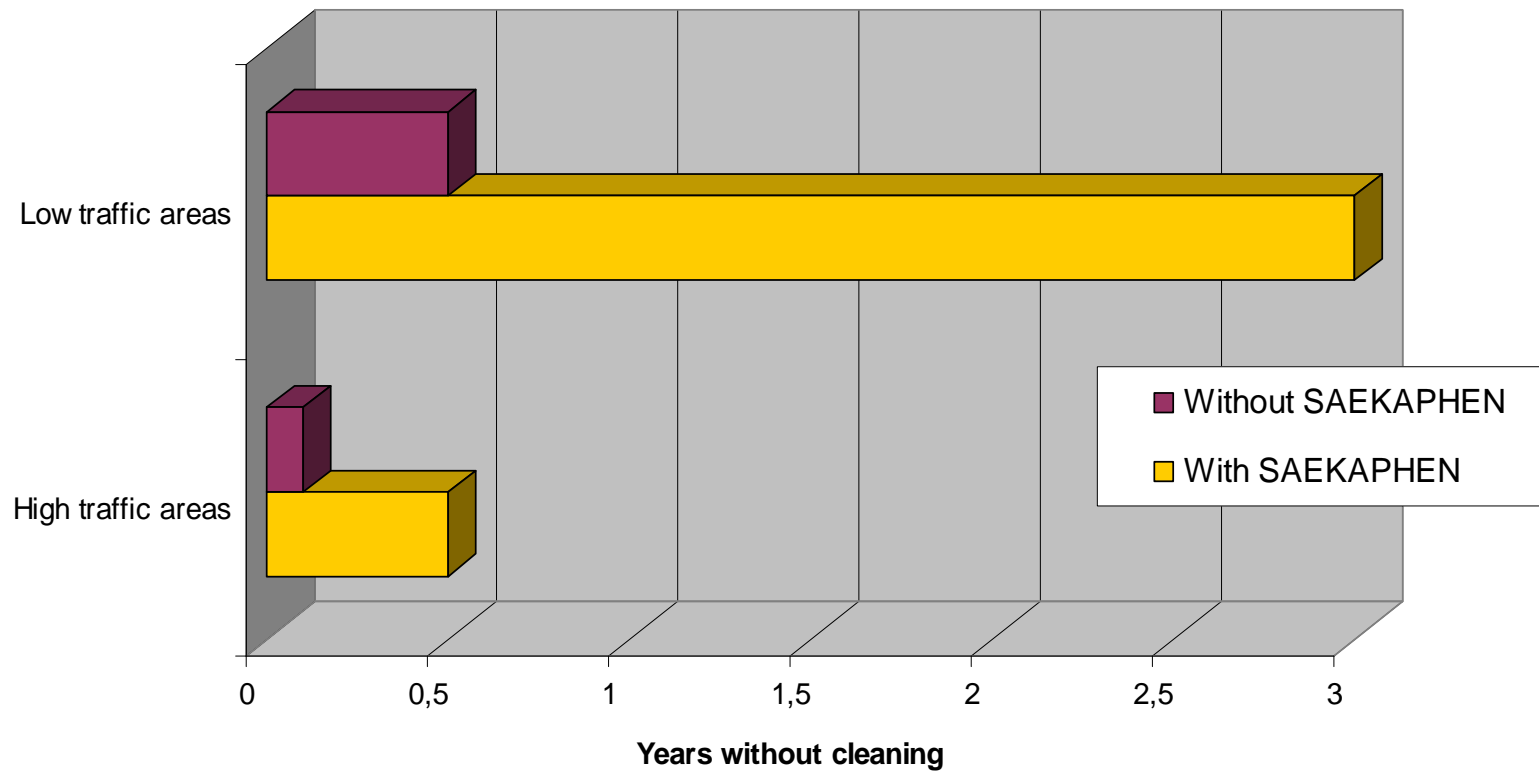
## Railways

The **SAEKAPHEN Cleaning Paste** is used in three major segments within the railways:



- railroad infrastructure
- railway locomotive maintenance
- high voltage transmission network under the authority of the railway association

## Effect of SAEKAPHEN cleaning paste on cleaning cycles of signs and signals within the railways



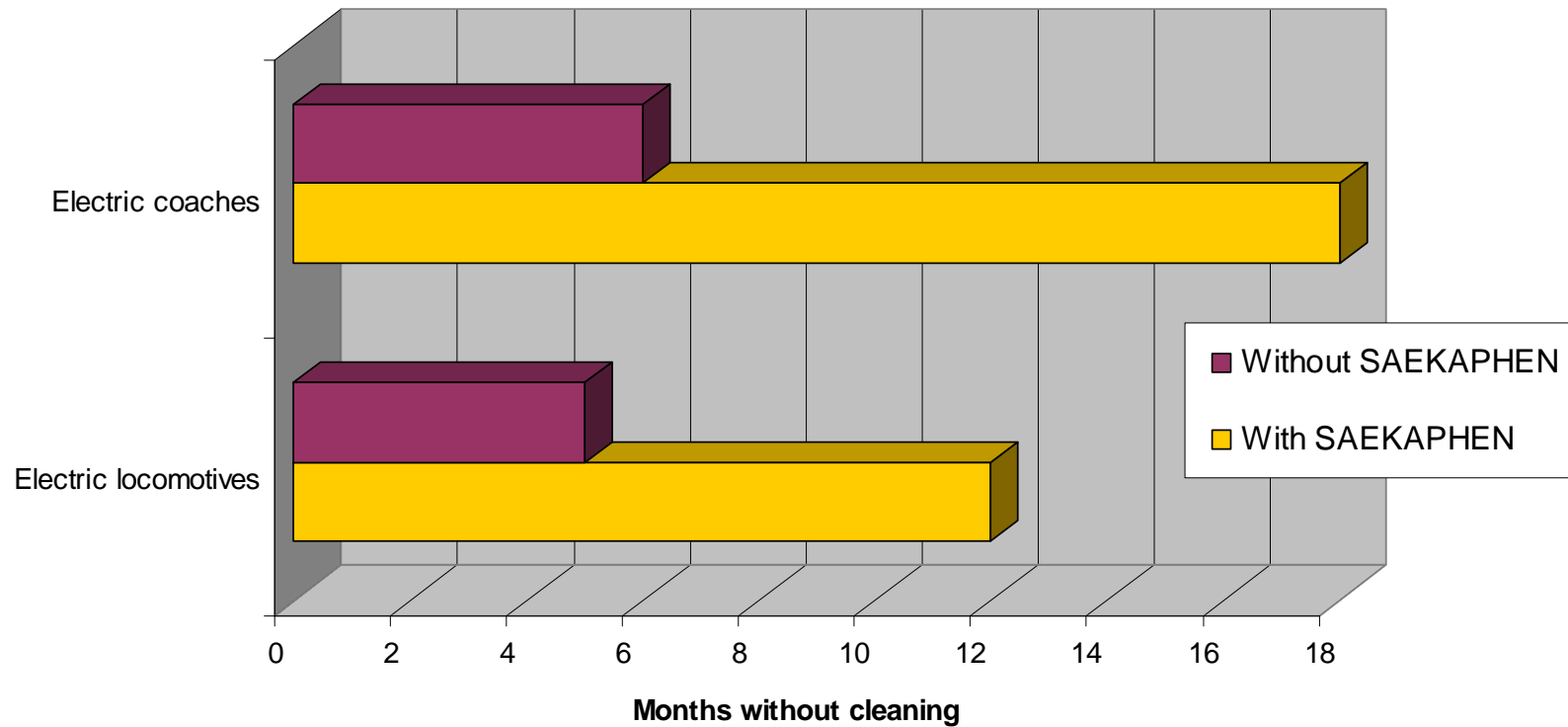
## Railroad infrastructure

The **SAEKAPHEN Cleaning Paste 80750** (combined with **SAEKAPHEN Silicone Grease 81750** in case of very high pollution) makes cleaning of signs and signals easy and reliable.

As the **SAEKAPHEN Cleaning Paste 80750** offers both a cleaning and sealing function, the product has a clear advantage compared to conventional liquid cleaning systems.

The cleaning cycles within the railroad infrastructure are dependent on the traffic volume.

## Effect of SAEKAPHEN cleaning paste on cleaning cycles of high voltage insulators of locomotives



## Railway locomotive maintenance

- Insulators on top of electric locomotives and motor coaches are under higher threat of contamination by industrial and non-industrial dust than insulators in the electricity industry
- Beside flash-overs a lack of efficiency is the consequence of this contamination
- In addition, high speed and interregional trains use to have a general check up after 6 to 8 years

The use of **SAEKAPHEN Cleaning Paste 80750** and **SAEKAPHEN Silicone Grease 81750**

=> keeps and enhances the performance of electric insulators

=> keeps up a fast and efficient railway travel

## Maintenance cycles within the locomotive maintenance

- The **SAEKAPHEN Cleaning Paste 80750** and **SAEKAPHEN Silicone Grease 81750** clean and seal insulators on top of electric locomotives and electric motor coaches. As these insulators are “moving targets” for contamination, short cleaning cycles are required.

With the **SAEKAPHEN**-products the cleaning cycles of insulators can be limited.

# Metal Industry



## Metal Industry

**SAEKAPHEN cleaning agents** are used in the metal industry in a wide range of strongly-soiled equipment or machinery for a safe working environment.



The **SAEKAPHEN Cleaning Paste 80750** in combination with **SAEKAPHEN Silicone Grease 81750** protect and clean electricity transformers in an industrial production environment from dust and flash rust. Again the key function is to clean and seal.

## References

Electricity Industry



Railways



Metal Industry



## World-wide representation

Headquarter Gladbeck, Germany

AUSTRIA, Kleinneusiedl

ITALY, Milano

POLAND, Gliwice

SOUTH-KOREA, Gwangyang

SWITZERLAND, Gebenstorf

USA, Dickington TX

FRANCE, St. André lez Lille

MALAYSIA, Kuala Lumpur

PORTUGAL, Lisboa

U.K, West Yorkshire

USA, Manitowoc WI

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