

Protection upgraded



# SURTEC COMPANY PROFILE

March 2024






- 1**    **Freudenberg Group**
- 2**    **Freudenberg Chemical Specialities**
- 3**    **Brands: Klüber Lubrication, Chem-Trend, OKS, Capol**
- 4**    **SurTec**

# FREUDENBERG GROUP

## Overview

- Freudenberg is a family-owned group of companies operating worldwide. With its 11 Business Groups, it is active in various industries and markets.
- Creativity, quality, diversity and innovative strength are the cornerstones of the company. Reliability and responsible action are among the core values of the company's more than 175-year history.
- Freudenberg relies on partnerships with customers, long-term orientation as well as financial solidity and the excellence of its approximately 52,000 employees in around 60 countries around the world.
- The accident rate or LDIFR (Lost Day Incident Frequency Rate) is 1.4 per million hours worked, making Freudenberg the leader in the industry.



	Turnover	€ 11.9 billion
	Operating Result	€ 1.08 billion
	Investment in R&D	€ 603.6 million
	Share of investments in environmental protection, occupational health and safety, and sustainability	10%
	Workforce	52,241

### Freudenberg SE

#### Seals & Vibration Control Technology



- Sales\*: € 6.3 billion
- Staff: 29,748

#### Technical Textiles and Filtration



- Sales\*: € 2.59 billion
- Staff: 11,026

#### Cleaning Technologies and Products



- Sales\*: € 1.24 billion
- Staff: 3,682

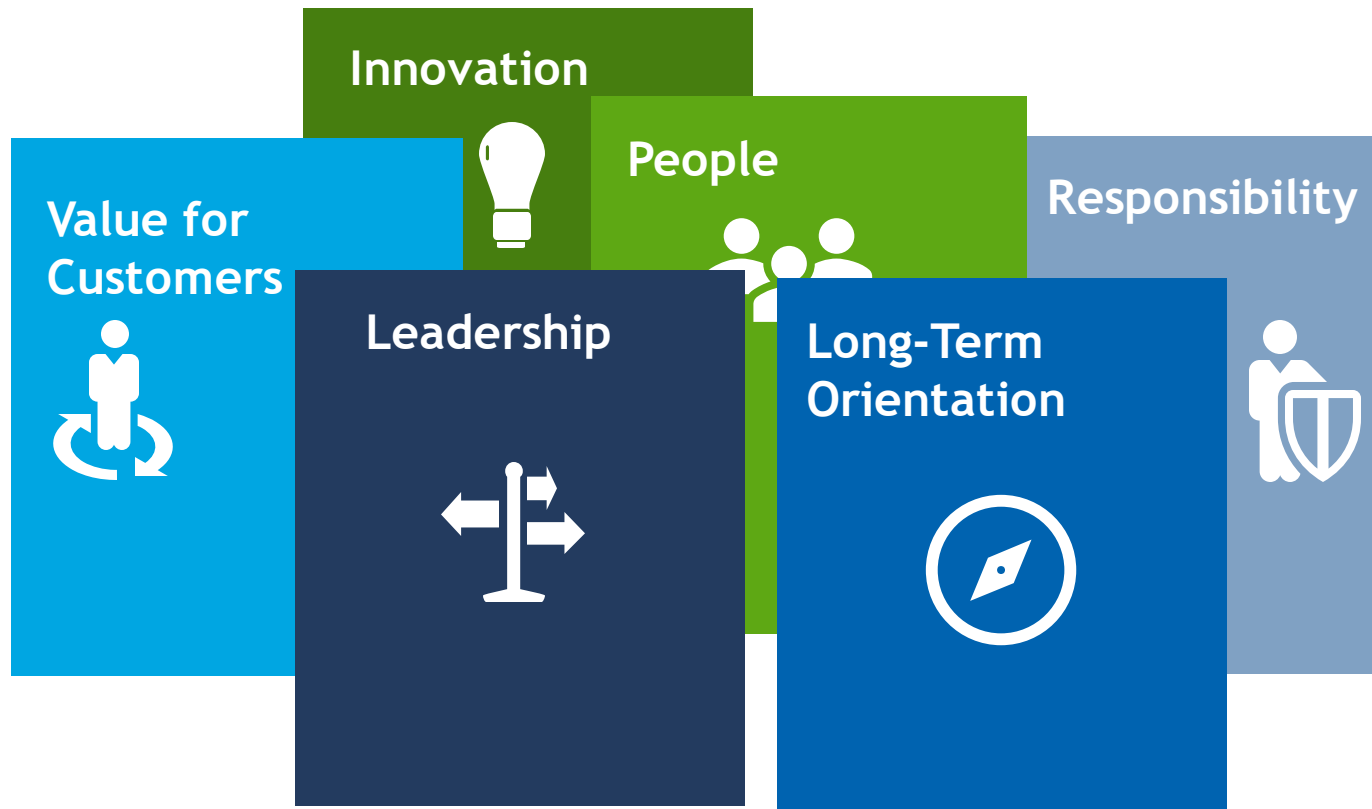
#### Specialities



- Sales\*: € 2.02 billion
- Staff: 7,785

\* incl. Intercompany Sales

Freudenberg gears its business conduct towards six Guiding Principles. They are a short version of the Group's Business Principles, summarised for our employees and business partners.



# FREUDENBERG GROUP

## Company Culture: Code of Conduct



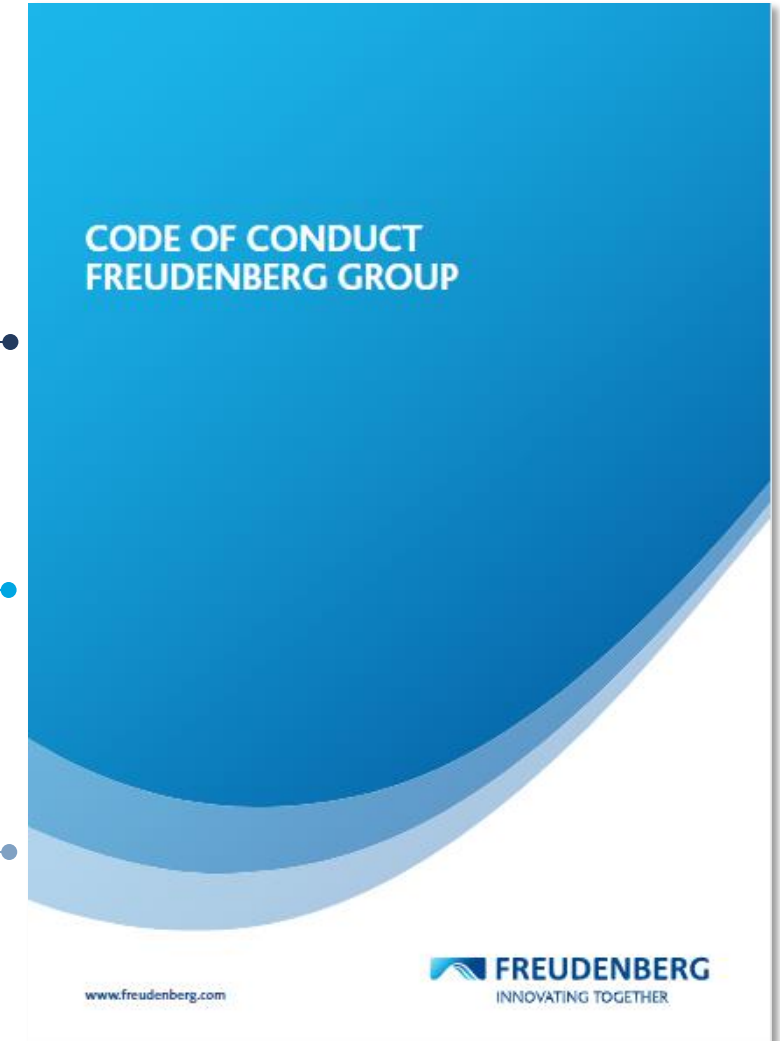
The Code defines what is expected in terms of business conduct and behavior from each employee, regardless of position, function and country. It serves as a guide in dealing with moral and legal issues correctly.



The Code expects lawful and responsible conduct from all employees from the outset.



All employees of the Freudenberg Group receive their own personal copy.



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# FREUDENBERG CHEMICAL SPECIALITIES (FCS)

## History



1929

Klüber Lubrication was founded by Theodor Klüber



1960

Peer Lorentzen starts the company Chem-Trend



1966

Freudenberg takes over Klüber Lubrication



1978

Friedrich Kuhn-Weiss founded OKS in Munich



1993

Herbert Baunach and Patricia Preikschat founded SurTec



2004

Freudenberg Chemical Specialities (FCS) is established as a management company  
FCS acquires Chem-Trend  
FCS combines Klüber Lubrication, Chem-Trend and OKS as three independently operating companies under one umbrella

2008

Klüber Lubrication and Chem-Trend open first production facilities in China under the stewardship of FCS

2010 - 2013

FCS acquires SurTec in 2010 and Capol in 2013



2016

Inauguration of the new plant in Valinhos, Brazil, jointly operated by SurTec and Chem-Trend

2020-2023

Further expansion by numerous acquisitions



# FREUDENBERG CHEMICAL SPECIALITIES

## Organisational Structure



### Freudenberg Chemical Specialities:



Headquarters  
in Munich,  
Germany

90 locations  
in over 40  
countries

Worldwide  
sales of  
€ 1.42 bn in  
2023

About 4,000  
employees

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**Global Leader in Speciality Lubrication**

Greases, Oils, Corrosion Protection, Waxes & Pastes



*Release Innovation™*

## **Global Leader in Specialty Release Agents**

Die Casting, Polyurethane, Thermoplastics, Tire, Rubber & Composite





## Partner for High-Performance Lubricants

Pastes, Oils, Greases, Dry Lubricants, Corrosion Protection & Maintenance



## **Specialist for Glazing, Releasing or Sealing Confectionery**

Chocolate-coated Centres, Sugar-coated Centres, Hard and Soft Caramels, Gums and Jellies, Coated Goods, Liquorice and Extruded Products & Pre-coating Centres

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**Sur  
Tec**

## **Experts for Surface Treatment**

Industrial Parts Cleaning, Metal Pre-treatment, Electroplating & Functional Coatings

# HISTORY

## The beginnings of the SurTec Group



1975-  
1989

Forming of Industrial Parts Cleaning  
and Metal Pre-treatment fields of  
application  
SurTec brand gets started

1989

Unilever acquires  
Elektro-Brite  
Beginning of the plating  
business

1993

MBO from Unilever Group  
**Foundation of SurTec Produkte  
und Systeme für die  
Oberflächenbehandlung GmbH**

1994-  
2005

Expansion of SurTec in numerous  
countries worldwide  
Inauguration of R&D centre in  
Brazil

2006-  
2009

Further expansion of SurTec  
on all continents  
New site in China  
Acquisition of Befeld &  
LC Systeme

2010

SurTec becomes a business unit of  
the Freudenberg Group



2014-  
2019

Further Acquisitions in Japan  
and Portugal  
Inauguration of new sites in  
Brazil and Vietnam

2021-  
2022

Acquisition of Italtelco's  
chemical business in Italy  
Acquisition of omniTECHNIK  
Mikroverkapselungs GmbH &  
precote® USA

2023

30th Anniversary  
Acquisition of TF Chemical srl  
and Aluservice srl



2024

Start of the 5<sup>th</sup> Field of Application  
'Functional Coatings', adding  
Anti-Friction Coatings to our portfolio



# VISION AND MISSION



## VISION

To be the preferred supplier of chemical specialties for surface treatment. We are unique in delivering solutions for Industrial Parts Cleaning, Metal Pre-treatment, Electroplating, and Functional Coatings.

## MISSION

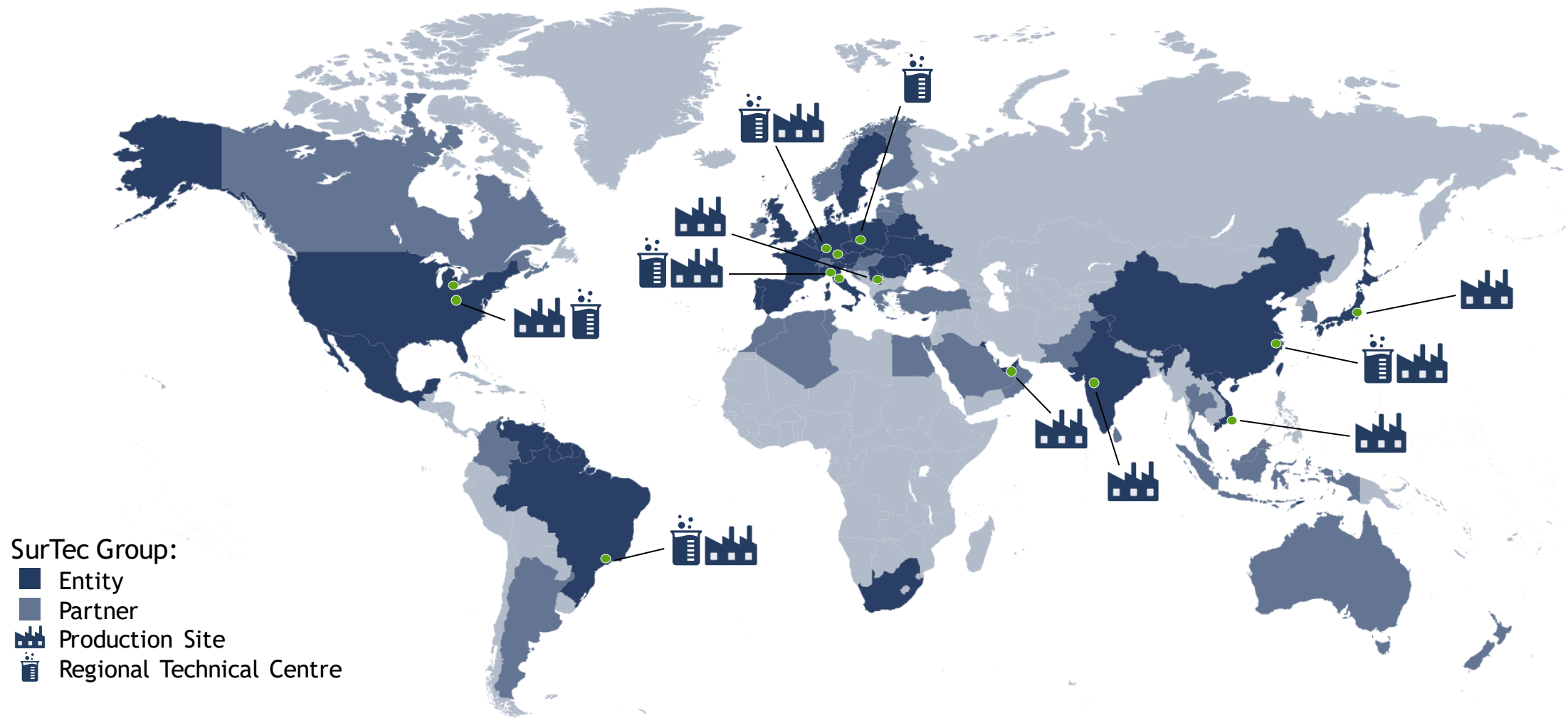
Our commitment is to develop and manufacture high quality chemical specialties and processes to meet our customers requirements. We sell directly on a worldwide basis and provide excellent technical consulting and services. Our products and processes ensure superior economy based on price/performance evaluations. We always strive to sustainably improve our own footprint as well as the handprint of our customers.



- SurTec is a leading player in chemicals for surface treatment processes
- Environmentally compatible products and processes
- Approx. 550 employees worldwide
- More than 1000 products and formulations

# TECHNICAL SERVICE AND PRODUCTION WORLDWIDE

Always close to the Customer



SurTec is represented in more than 40 countries with own subsidiaries and a global partner network.

# WORLDWIDE PRESENCE

## Overview on Affiliates and Partners



### AMERICAS

- SurTec do Brasil, Brazil
- SurTec USA, USA
- precote® USA, LLC., USA
- Klüber Lubrication, Mexico

### EMEA

- SurTec Deutschland, Germany
- precote® Munich, Germany
- SurTec France, France
- SurTec Austria, Austria
- SurTec Scandinavia, Denmark
- SurTec Benelux, The Netherlands
- SurTec Polska, Poland
- **SurTec Italia, Italy**
- SurTec SK, Slovakia
- SurTec ČR, Czech Republic
- **SurTec Čačak, Serbia**
- SurTec Adria, Slovenia
- SurTec Romania, Romania
- ST Ibérica, Portugal
- SurTec South Africa, South Africa
- **SurTec Middle East, UAE**
- *Surtec Suisse GmbH, Switzerland*
- *Coquinesa, Spain*
- *DEDE KIMYA, Turkey*

### ASIA

- SurTec Hangzhou, China
- SurTec MMC Japan, Japan
- SurTec Chemicals, India
- SurTec Viet Nam, Vietnam
- *POONGWON CO., LTD. , South Korea*
- *Hankook Chem., South Korea*
- *Morimura Bros. (Asia) Co., Ltd., Japan*
- *YST Surface Technology, China*
- *Nature Trading Co., Ltd. (METEC), Taiwan*
- *PT. Cahaya Chandra Cemerlang, Indonesia*
- *MS Chem (SEA) SDN BHD, Malaysia*
- *Ya Thai Chemical Co. Ltd., Thailand*
- *Electrochemical Co. Ltd., Thailand*
- *Australian Chemicals & Coatings, Australia*

SurTec production locations  
SurTec locations without production  
*SurTec Partner*



# INTERNATIONAL TECHNICAL CENTRE COVERAGE

Regional and Local Technical Centres in all three Regions



## AMERICAS



### Regional Technical Centre

Brazil

### Local Technical Centre

USA

## EMEA



### Regional Technical Centre

Germany, Poland, Italy

### Local Technical Centre

France, Portugal, Serbia

### Field Lab

Czech Republic, Denmark, Netherlands,  
Slovakia, Slovenia, UAE,  
South Africa

## ASIA



### Regional Technical Centre

China

### Local Technical Centre

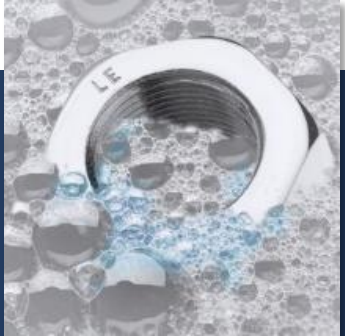
Japan, India

### Field Lab

Vietnam

# FIELDS OF APPLICATION

SurTec offers a Complete Product Portfolio for Surface Treatment



## Industrial Parts Cleaning

- Temporary Corrosion Protection
- 1K Built Cleaning Products
- Surfactant Blends
- Builder Systems

## Metal Pre-treatment

- Tri-Chrome Passivations
- Chromate Replacements
- Phosphates & Phosphate Replacements
- Anodizing

## Decorative Electroplating

- Copper, Nickel and Chrome
- Plating on Plastics
- Chrome-free Etch Technology for POP
- Pre-treatment for all Base Materials

## Functional Electroplating

- Zinc and Zinc Alloys
- Tin and Tin Alloys
- Passivations and Sealers
- Wear Resistant Layers
- Pre-treatment

## Functional Coatings

**precote**  
FUNCTIONAL COATINGS

- Locking
- Sealing
- Clamping
- Wear & Media Resistance
- Dry Lubrication

# INDUSTRIAL PARTS CLEANING

## Water-based Cleaner Systems with Outstanding Performance



### Applications

- Dephosphating
- Deburring
- Interoperational cleaning
- Precision cleaning
- Cleaning in the production of aerosol cans
- Cleaning before & after heat treatment
- Cleaning before plasma coating
- Cleaning of PET flakes in the recycling process
- Cleaning during vibratory finishing

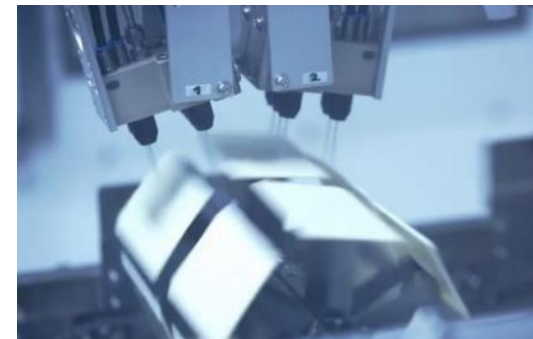
[More information](#)

### Technology Highlights

- Salt-free all-in-one cleaner for ferrous metals; optional: low temperature cleaners  
**SurTec 042, SurTec 041 LT**
- Universal surfactant blend with maximum cleaning ability at low temperatures  
**SurTec 081**
- P-free multi-metal neutral activator, which removes rust and oxide layers without risk of flash-rust formation at neutral pH-value  
**SurTec 413**
- P-, salt- and MEA-free recycable temporary corrosion protection  
**SurTec 537**



Cleaning before heat-treatment



Cleaning before plasma treatment



Cleaning equipment (Ecoclean)



# METAL PRE-TREATMENT

Focus on Replacement Technologies with Tangible Added Values



## Applications

- Cleaning, pickling, deoxidising
- Chromium(III) passivation of light metals
- Chrome-free pre-treatment of aluminium before painting
- Modular low-temperature zinc and manganese phosphating
- Phosphate substitute for multi-metal pre-treatment
- Functional and decorative anodizing processes
- Quenching and Passivation after hot-dip galvanizing
- Pickling & Passivation of Stainless Steel

[More information](#)

## Technology Highlights

- Tri-Chrome passivation of aluminium  
**SurTec 650 Family**
- Phosphate-free low temperature high performance cleaner for multi-metal applications  
**SurTec 168 LT**
- Modular low-temperature phosphating  
**SurTec 61x Family**
- Chrome-free pre-treatment of aluminium before painting  
**SurTec 643**
- Functional and decorative anodizing processes  
**SurTec 3xx (Hardwall, Sallox, Alubrill)**



SurTec 617: Modular zinc phosphating



SurTec 650: E-Mobility



SurTec 345 Hardwall: Alkali-resistant sealing

# DECORATIVE ELECTROPLATING

SurTec is Leading in Decorative Cr(III)-Technology



## Applications

- Pre-treatment for all metals
- Plating on plastics
  - ABS/ABS PC pre-treatment
  - PA pre-treatment
  - Chrome-free etch technology
- Decorative processes
  - Copper plating
  - Nickel plating
  - Chrome plating

## Technology Highlights

- Pre-treatment for plating on plastics  
**SurTec 961** and **SurTec 962**
- Copper plating offers best brightness and levelling  
**SurTec 864** (alkaline), **SurTec 866** and **SurTec 867**
- Nickel plating offers high corrosion protection  
**SurTec 853** (semi bright), **SurTec 851** (satin) and **SurTec 859** (bright)
- Cr(III)-technology offers high corrosion protection  
**SurTec 881**, **SurTec 882**, **SurTec 883 XT** (**SurTec 88x-family**)

[More information](#)



SurTec 882/SurTec 881: Plating on Plastics



SurTec 883 XT: Cr(VI)-free Decorative Chrome achieving identical colour values



SurTec 866: Acid copper

# FUNCTIONAL ELECTROPLATING

SurTec is Leading in Zinc Technologies and Thick layer Passivation



## Applications

- Pre-treatment for all metals
- Cathodic corrosion protection
  - Zinc and zinc alloy processes
  - Passivations
  - Sealers & Top Coats
- Wear protection

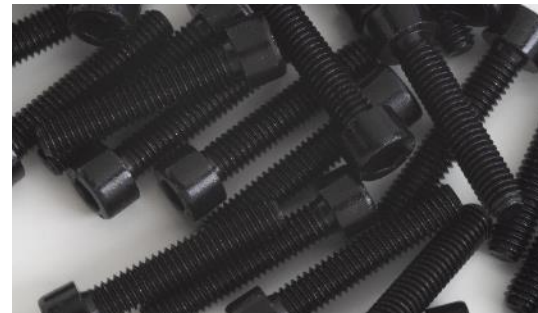
## Technology Highlights

- Alkaline zinc & zinc/nickel & zinc/iron plating for ferrous metals  
**SurTec 704, SurTec 708, SurTec 717, SurTec 712**
- High flash point acid zinc for steel and cast iron  
**SurTec 758 BC**
- Cobalt-free passivation for zinc and zinc alloys  
**SurTec 675**
- Cr(VI)-free black passivates for zinc and zinc alloys  
**SurTec 69x Family**
- High End Top Coat for zinc and zinc alloys  
**SurTec 554**

[More information](#)



SurTec 717: Alkaline Zinc/Nickel-Process



Zn/Fe-layer, black passivated



SurTec 680 (LC): Chromiting

# FUNCTIONAL COATINGS

Comprehensive Product Portfolio from Locking & Sealing to Dry Lubrication

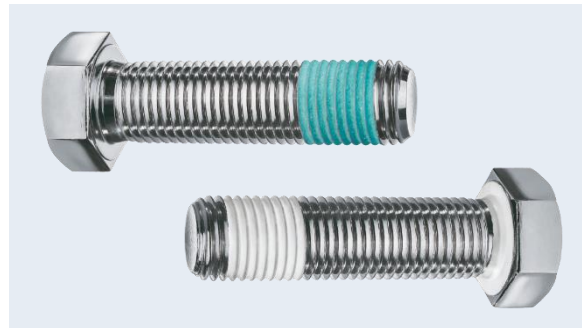


## Applications

- Locking function
- Sealing function
- Clamping function
- Dry Lubrication
- Conductivity (new)
- Reusability (new)
- PFAS-free (new)
- Stick-slip
- Wear resistance
- Media resistance
- Corrosion protection

## Technology Highlights

- World's leading high strength microencapsulated screw locking product  
**precote® 85**
- High strength microencapsulated screw locking product for small screws  
**precote® 50**
- Coating used for thread and under-head sealing  
**precote® 15**
- Anti-friction coating for elastomers:  
**Klüberflex 300-0 N**
- Anti-friction coating for metal application:  
**Klüberlub TP 47-391, OKS 546**



precote® 15 & precote® 85:  
microencapsulated screw locking



Anti-friction coatings for elastomers  
such as o-rings



Klüberlub TP 47-391, OKS 546:  
Anti-friction coating for metal application

# SERVICE

Global technical support and outstanding services

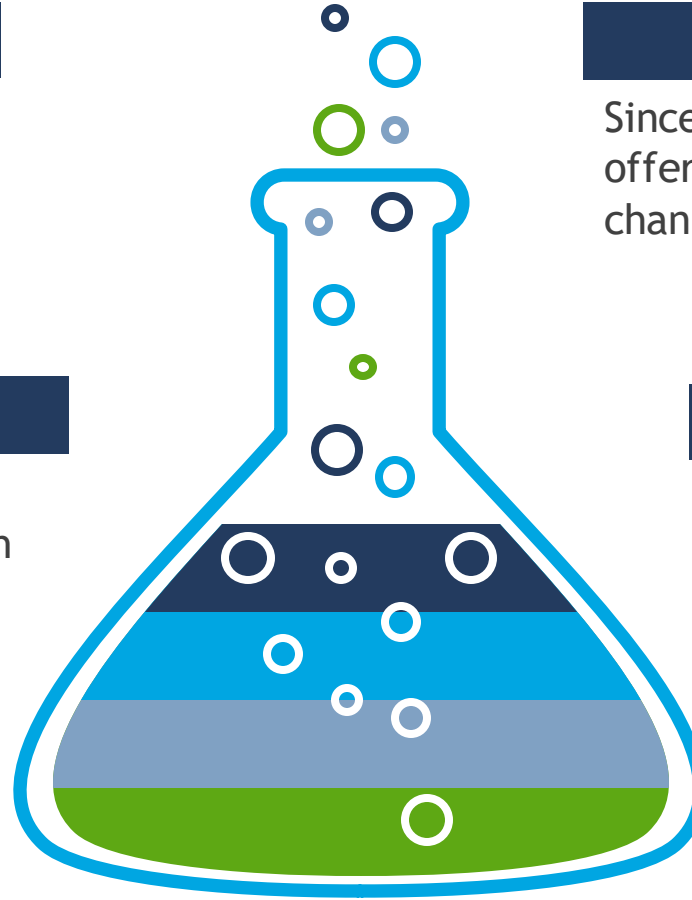


## Chemical & Analytical Services

With Technical Centres and regional laboratories in Asia, America and Europe, SurTec offers its customers diverse services.

## Consulting Service

SurTec offers excellent service with individual and sound advice. Together with you, we will find the optimal process. We also provide application consulting for manufacturers to OEMs incl. sample coatings.



## Trainings

Since a technical understanding is essential, we offer our customers support through several channels with seminars and training.

## Engineering Service

SurTec's range of services also includes support in system planning.

## Digital Services

We support you with innovative methods to supervise your processes.



# SUSTAINABILITY

Global goal of the Freudenberg Group: Climate Neutrality until 2045



Entrepreneurial Action with Responsibility



Sustainable & recyclable cleaning systems  
(e.g.: PET recycling & low temperature cleaners)



Sustainability goals apply without restriction throughout the Group



Elimination of critical substances from our products  
(e.g.: Chromium(VI), PFAS)



Certified quality, environmental and occupational safety management



You can get a comprehensive insight into our sustainability program in our current sustainability report, which you can view [here](#).



# SELECTIVE CUSTOMERS

Customers from almost all Segments



SCHAEFFLER

mbw  
metallveredelung

MAHLE

a ossidazione  
anodica

Webasto

ASSA ABLOY

Tri-Sure®  
MORE THAN CLOSURES

A surface  
technologies  
aalberts

LTH Castings

FREUDENBERG  
SEALING TECHNOLOGIES

TENNECO

Ball

SFS

kap surface  
technologies

TW

legrand

BOSCH

WÜRTH

BEKAERT  
better together

Collini

oerlikon

AIRBUS

United  
Technologies

SAMSUNG

HILTI

galfa

MINTH

gorenje

Valeo

METLOK

Schneider  
Electric

RITAI  
SHANGHAI RITAI

hübnerKTB  
OBERFLÄCHENTECHNIK

BOMBARDIER

BMW

Iskra

Valeo

METLOK

ZF

KNORR-BREMSE

ARNOLD®  
BlueFastening Systems

lisi

ArcelorMittal

JOHN DEERE

MAGNA

BRAUN

VW

Continental

ArcelorMittal

JOHN DEERE

RoyalCidlo  
você faz o mundo girar

Schröder

ML  
MULTILAQUE

Protection upgraded



THANK YOU