

FUCHS Special Applications

Specialty Lubricants for Railway Traffic



MOVING YOUR WORLD



FUCHS LUBRICANTS GERMANY

We do not just develop lubricants. We develop intelligent solutions for highly complex challenges.

To this end, we have pooled our expertise and experience from a wide range of application areas: FUCHS SCHMIERSTOFFE and FUCHS LUBRITECH became FUCHS LUBRICANTS GERMANY. Our goal: to keep our customers' world in motion. Efficient, sustainable, reliable. Today and tomorrow.

What can we move for you?

FUCHS LUBRICANTS GERMANY

Facts and figures

Company: FUCHS LUBRICANTS GERMANY GmbH,
a company of the FUCHS Group

Locations: Based in Mannheim, with sites in
Bremen, Dohna, Hamburg, Kaiserslautern, Kiel and Wedel;
approx. 1,400 employees

Product range: A full range of more than 3,000 products
for all application areas

Certifications i. a.: ISO 9001, IATF 16949, ISO 14001,
ISO 45001, ISO 50001, ISO 21469, HALAL, KOSHER
(detailed certifications at www.fuchs.com/de/en)

CO₂ neutral production*

Since 1931, we have been pursuing the same goal: to keep the world moving. With innovative and technological lubricant solutions that have a sustainable impact on the future. Unconditional reliability is our top priority, it is the foundation of our company and basis for everything that defines us.

Reliability is both a driver and a demand. And it's a promise to all our customers in the fields of automotive suppliers and OEMs, mechanical engineering, metal processing, mining and exploration, aerospace, energy, construction and transport, agriculture and forestry, as well as the paper, steel, metal, cement, forging and food industries, but also qualified lubricant dealers, car dealerships and workshops.

Long-term experience, high development strength and the fulfillment of far-reaching standards are the basis for the special quality of our world-leading product brands. We deliver solutions that are simply more efficient and therefore more sustainable. We always think in holistic solutions. For the development of individual solutions, we enter into an intensive customer dialog with you. This is the way we live up to our claim of moving your world.

MOVING YOUR WORLD

*Partially also based on compensation

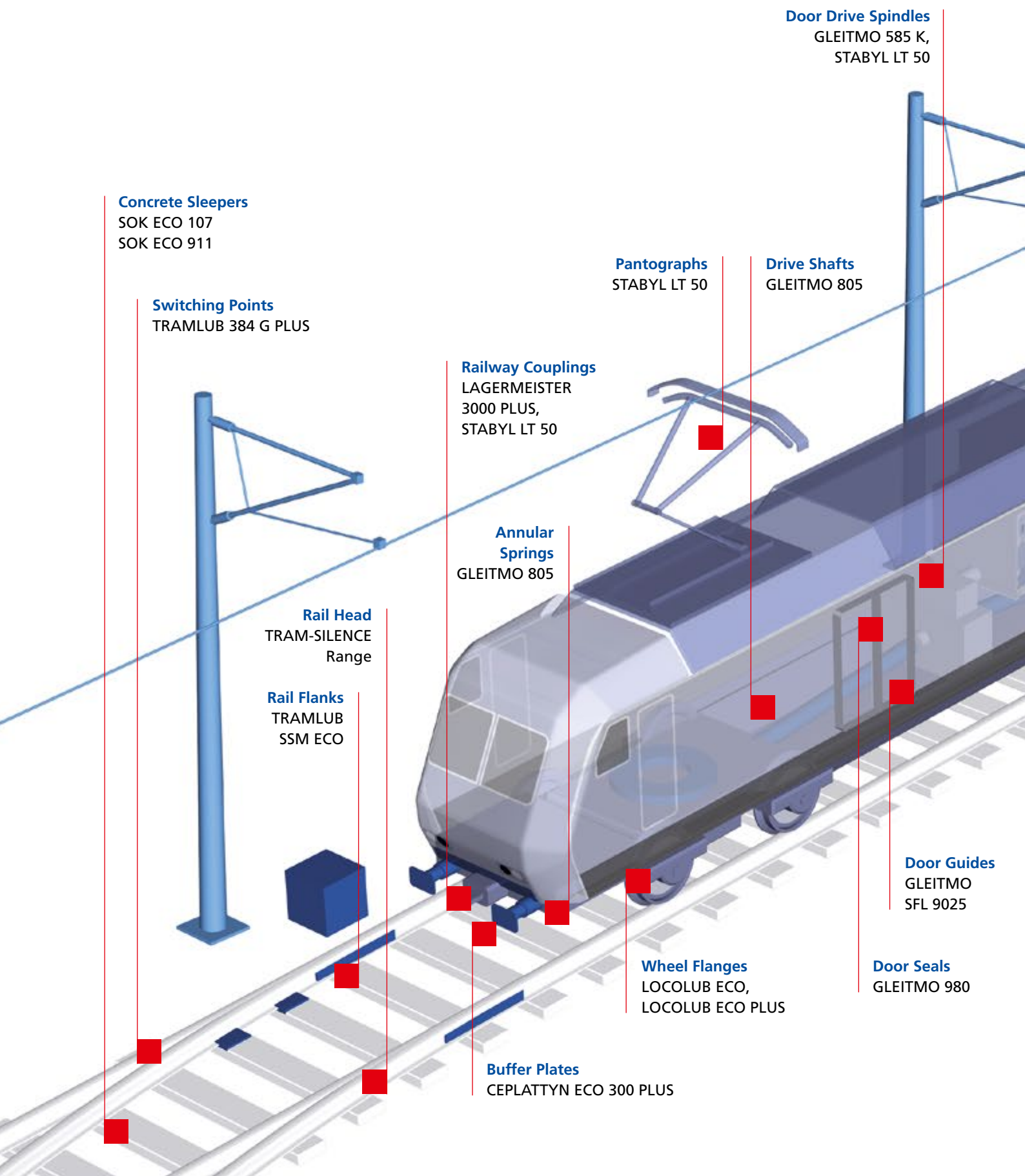
HIGH-PERFORMANCE LUBRICANTS FOR OPTIMUM SAFETY AND PERFORMANCE IN RAILWAY TRAFFIC

As one of the world's leading manufacturers, FUCHS LUBRICANTS GERMANY has been successful in the field of railway lubricants for many years. Customers benefit from our profound experience and knowledge in the lubrication of wheel flanges, rails and switches, extending as far as rail head treatment and the lubrication of buffer plates or coupling systems. Decisive for these applications are the technical performance of the lubricants as well as their biological degradability – two factors that we have concentrated on for years in the research and development of lubricants for rail traffic. Today, the product range encompasses the right lubricant for virtually all rail traffic applications. Our lubricants are used not only in Europe, but are also literally on the move in Asia, the Americas or Australia.

And our development continues – for continuously new solutions that protect equipment and environment and save costs.



The right lubricant for your application



Concrete Sleepers

SOK ECO 107
SOK ECO 911

Switching Points

TRAMLUB 384 G PLUS

Rail Head
TRAM-SILENCE
Range

Rail Flanks
TRAMLUB
SSM ECO

Railway Couplings

LAGERMEISTER
3000 PLUS,
STABYL LT 50

**Annular
Springs**
GLEITMO 805

Pantographs

STABYL LT 50

Door Drive Spindles

GLEITMO 585 K,
STABYL LT 50

Drive Shafts

GLEITMO 805

Door Guides

GLEITMO
SFL 9025

Door Seals

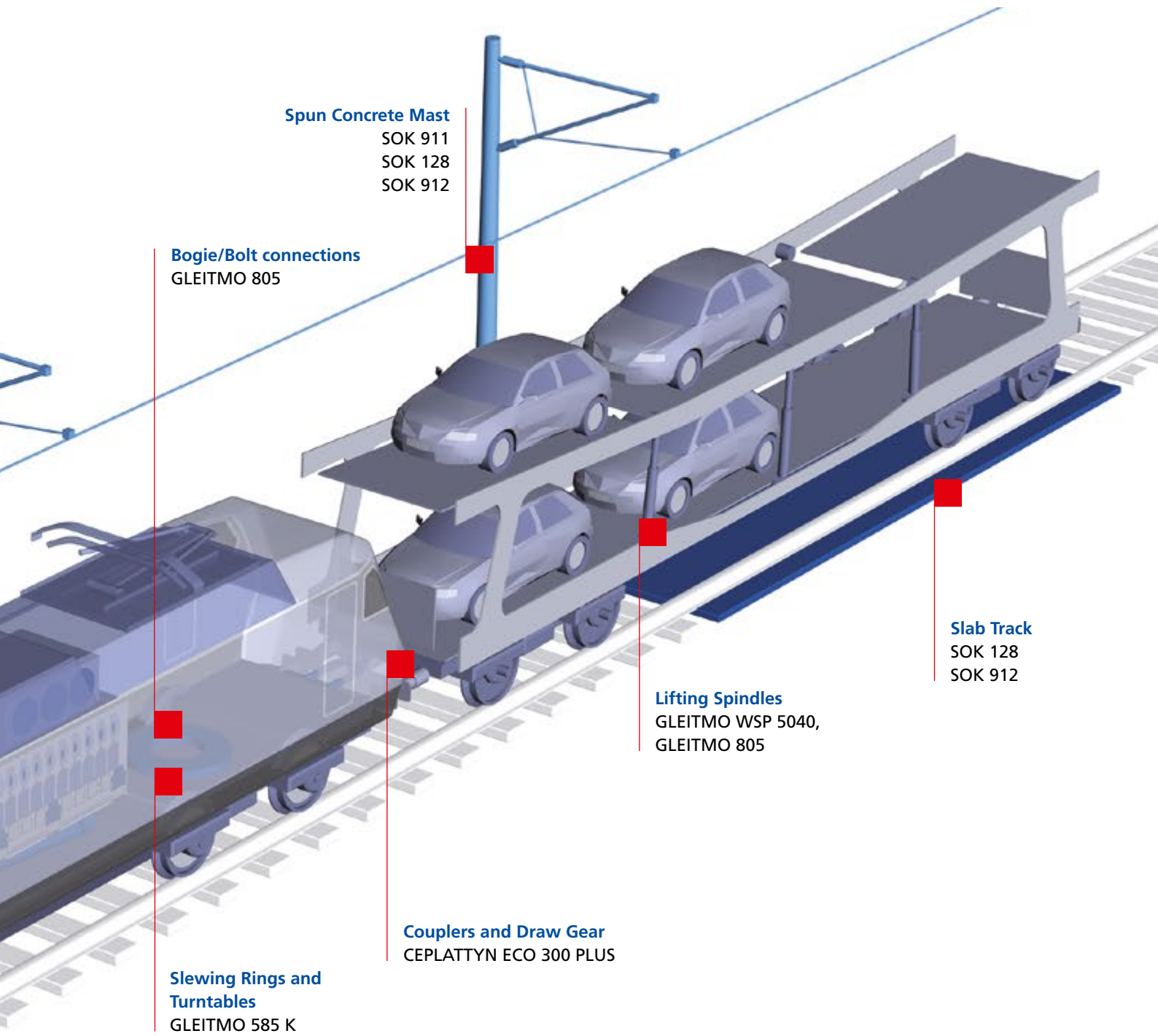
GLEITMO 980

Wheel Flanges

LOCOLUB ECO,
LOCOLUB ECO PLUS

Buffer Plates

CEPLATTYN ECO 300 PLUS



The right lubricant for your application

Wheel Flanges



LOCOLUB ECO PLUS

LOCOLUB ECO PLUS considerably extends the service lives of wheels and rails and increases availability through lower maintenance requirements and/or extended service intervals. LOCOLUB ECO PLUS leads to lower life cycle costs for the customer.

- Unique performance – reduction in wear by up to 80% compared to conventional wheel flange lubricant
- Special solid lubricants guarantee pressure and shear stability of the separating film
- Increased safety – reduced risk of derailling
- Biodegradability
- Very good adhesion and spraying capability

Other suitable products:

LOCOLUB ECO, TRAMLUB F 234 MOD 2, LOCOLUB NSB

Rail Flanks



TRAMLUB SSM ECO

TRAMLUB SSM ECO is field-proven and has been approved by well-known customers. It can be processed with all stationary lubrication systems designed for consistent greases.

- Excellent lubrication performance and maximum wear protection ensure quiet operation and long service lives of wheels and rails
- Excellent adhesion and water resistance enable minimum consumption rates and a long-lasting lubricating effect
- Reliable operation due to outstanding low temperature characteristics in winter as well as high temperature and UV stability in summer
- Biodegradability

Switching Points



TRAMLUB 384 G PLUS

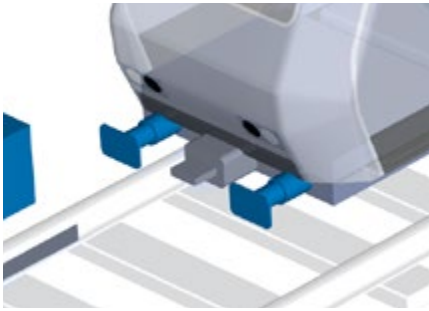
Switching points are among the most important and most sensitive elements on railways. TRAMLUB 384 G PLUS sets standards for this application in terms of corrosion protection, adhesion, cold weather suitability, penetrating capability and UV stability.

- Constantly low friction values and actuating forces
- Extension of relubrication intervals
- Outstanding protection against wear and corrosion
- Excellent adhesion, water resistance and UV resistance and at the same time excellent penetrating capability ensure smooth operation of the switching points
- Biodegradability

Other suitable product:

TRAMLUB 384 G

Buffer Plates



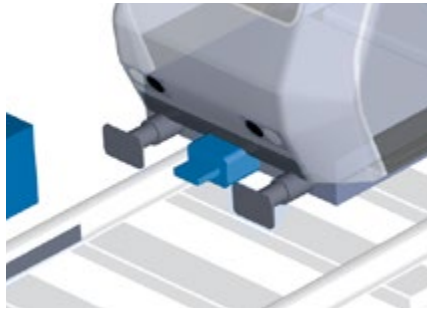
CEPLATTYN ECO 300 PLUS

CEPLATTYN ECO 300 PLUS is an eco-friendly, fully synthetic adhesive lubricant with outstanding wear protection characteristics thanks to its special solid lubricant combination.

- Excellent pressure stability, even under alternating loads
- Outstanding adhesion and water resistance
- High UV resistance
- Biodegradability

In addition, CEPLATTYN ECO 300 PLUS is also suitable for the lubrication of screwed joints, handbrake spindles or horn cheeks on railway vehicles.

Railway Couplings



LAGERMEISTER 3000 PLUS

LAGERMEISTER 3000 PLUS is a semi-synthetic, heavy-duty EP lubrication grease, which is characterized by extreme water resistance, outstanding corrosion protection and excellent adhesion properties.

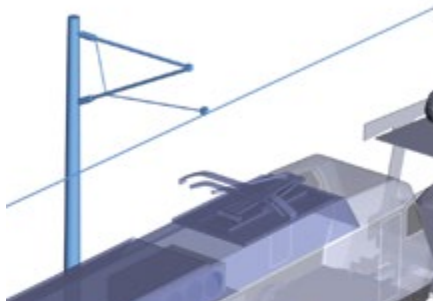
- Excellent resistance to washing out and off
- Openly accessible steel surfaces are protected effectively against corrosion
- Extension of relubrication intervals

LAGERMEISTER 3000 PLUS is suitable both for the protected areas of coupling systems, such as main bolts or crossing hubs, and for open parts such as sliding surfaces on the coupling head.

Other suitable product:
STABYL LT 50

The right concrete release agent for your application

Spun Concrete Mast



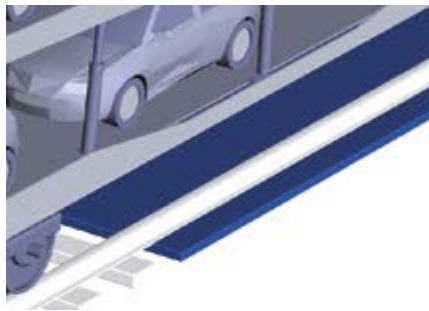
SOK ECO 911

SOK ECO 911 can also be processed at low temperatures and has a very good spreading behavior. It is therefore economical in use.

- Prevents pore formation to a great extent
- Ensures clean and homogeneous surfaces
- Provides clean forms
- Usable without dilution
- Good protection against corrosion
- Rapidly biodegradable

Other suitable products:
SOK 128, SOK 912

Slab Track



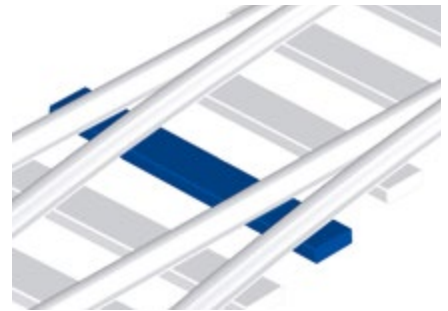
SOK 128

SOK 128 is a versatile release agent for precasting plants. As a special release agent with a high process reliability it is ideally suited for the manufacture of the slab track system.

- Suitable for the casting of exposed concrete
- Prevents pore formation to a great extent
- Ensures clean and homogeneous surfaces
- Usable without dilution
- Rapidly biodegradable

Other suitable product:
SOK 912

Concrete Sleepers



SOK ECO 107

SOK ECO 107 is a special release agent for precasting plants and is ideally suited for the manufacture of concrete sleepers.

- Prevents pore formation to a great extent
- Ensures clean and homogeneous surfaces
- Rapidly biodegradable
- Usable without dilution

Other suitable product:
SOK ECO 911

Approved EU Ecolabel

FUCHS LUBRICANTS GERMANY follows a company policy that views economic efficiency and environment protection as an inseparable unity. We attach great importance to the manufacture of biogenic products using renewable raw materials. Today our product range offers eco-friendly alternatives to many applications, which at the same time do not compromise in terms of technical performance.

In order to certify this, we use the EU Ecolabel. This ecolabel is an approved symbol for the use of eco-friendly products, recognised in particular by environment protection authorities and in the context of environment audits.



Effective Maintenance

Maintenance and repair of vehicles, machines and systems is a diverse field demanding considerable attention and flexibility. FUCHS LUBRICANTS GERMANY offers the complete workshop requirement – products for assembly, maintenance, care and repair.

Application area	Products
Bolt and joint lubrication, general grease lubrication	LAGERMEISTER TS, LAGERMEISTER WHS 2002, STABYL ECO S 12
Gear wheel lubrication	CEPLATTYN 300, CEPLATTYN ECO 300
Rust loosening and penetrating oils, fine precision lubrication	FERROFORM SUPER 7, FERROFORM ECO LOCC
Release and preservation	GLEITMO 980, GLEITMO SFL 9085, GLEITMO SFL 9580
Assembly and screw/bolt lubrication	GLEITMO 100 S, GLEITMO 165, GLEITMO 805
Cleaning and corrosion protection	CTP M ECO, DECORDYN W, METABLANC
Chain lubrication	STABYLAN G 1000, STABYLAN ECO W 10
Wire rope lubrication	CEDRACON-SL, CEDRACON SL-DS, CEDRACON SL-K
Dry lubrication	GLEITMO 900, GLEITMO 925, GLEITMO 980

Further products on request. Subject to alteration.

Innovative lubricants need Experienced application engineers

Every lubricant change should be preceded by expert consultation on the application in question. Only then the best lubricant system can be selected. Experienced FUCHS engineers will be glad to advise on products for the application in question and also on our full range of lubricants.



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