

Innovative lubricants need experienced application engineers

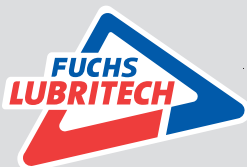
Every lubricant change should be preceded by expert consultation on the application in question. Only then can the best lubricant system be selected. We will be happy to advise on the right lubricant or coating for each application and also the range of support services we can offer.



LOCAL CONTACT:

FUCHS Lubricants (UK) plc
FUCHS Lubritech Division
New Century Street
Hanley, Stoke-on-Trent
ST1 5HU

Tel.: +44 (0) 1782 203700
Fax: +44 (0) 1782 202073
E-Mail: contact-uk@fuchs-oil.com
www.fuchslubricants.com



FUCHS LUBRITECH Head Quarters

FUCHS LUBRITECH GmbH
Werner-Heisenberg-Straße 1
67661 Kaiserslautern/Germany
Tel.: +49 6301 / 3206-0
Fax: +49 6301 / 3206-940
E-Mail: info@fuchs-lubritech.de
www.fuchs-lubritech.com





Specialist Coatings





YOUR **PERFECT** PRODUCT **PARTNER**

Solid Film Lubricants (SFL) and High Molecular Polymer (HMP) film lubricants are suitable for a multitude of materials, such as metals, plastics, and elastomers. After application on surfaces, solid film lubricants and HMP-film lubricants enable a reliable, clean and dry lubrication, in particular wherever greases and oils are not suitable or not practicable.

Our range of **gleitmo** solid film lubricants support the running-in of highly loaded machine elements, protect against surface damages, facilitate the assembly of O-rings, make screw and nuts run smoothly and can enable lifetime lubrication in automotive applications. Depending on their field of application, they can provide corrosion protection, act as a non-stick coating and help with noise reduction.



THE **FUCHS GROUP**

FUCHS is the world's largest independent lubricant manufacturer with 55 operating companies and 34 production plants worldwide. Our solid film lubricants are manufactured by the FUCHS Lubritech division, which has been operating for over 60 years with a dedicated focus on specialist lubricant technology.

In addition to products developed for industry in the UK, we have access to more than 2,500 industrial FUCHS products from within the Group. Customers can make use of FUCHS' technical expertise and product availability on a global scale, providing access to international fluid technology.



UK GROUP PROFILE

The headquarters of the UK subsidiary is located at our modern, highly automated production plant in Stoke-on-Trent. Our UK manufacturing site carries all the necessary approvals required including BSI AS 9100, ISO 9001, ISO 14001, ISO/TS 16949 and OHSAS 18001.

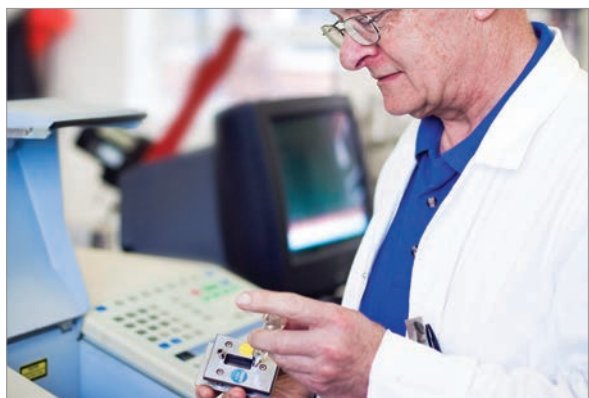
FUCHS is a full line supplier of lubricants and provides customers with local manufacturing, first-class logistics and specialist technical support.



RESEARCH & **DEVELOPMENT**

The FUCHS Group has a very strong focus on R&D with more than 400 chemists, engineers and specialists in more than 40 laboratories worldwide. Our labs are extremely well equipped and audited to the highest levels, having state-of-the-art equipment and highly trained staff with extensive technology and application knowledge.

Regular dialogue with OEMs, other industry bodies and component suppliers maintains technical advantages. Our continued investment ensures that we are at the forefront of lubricant technology.



TECHNICAL **SUPPORT**

With our industry leading experience in lubrication and chemical processes, FUCHS is able to provide customers with unparalleled products and services through focused engineering, administrative and technical support. Our business support solutions include a UK based customer service team, local customer account managers, as well as experienced technical engineers and product specialists.

Our technical specialists can assist customers with choosing the right product, advising on application, providing sample coatings prior to full production and personnel training.

SPECIALIST COATINGS



COMPREHENSIVE **PRODUCT RANGE**

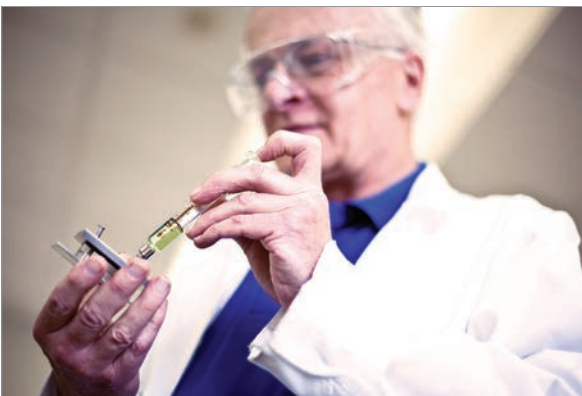
Solid film lubricants are specialist coatings designed to give exceptional dry lubrication – reducing wear, minimising friction and making assembly/disassembly easier. Depending on where they are used, they can also prevent corrosion, seal surfaces, prevent cold welding of metals, and support the flow of metal during the metal casting process.

The comprehensive **gleitmo** range of products offers customers an alternative to greases and oils, where clean adherence to components, friction reduction, life-time lubrication or good surface appearance are needed. The **gleitmo** range includes coatings based on PTFE, MoS₂ and graphite.



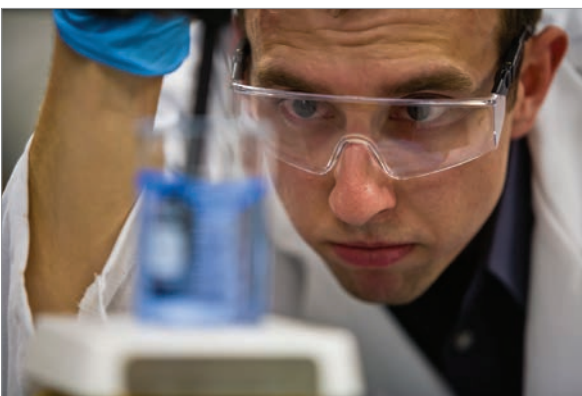
COMPATIBILITY

Surface preparation of the components is key; good adhesion and therefore lifetime of the coating can only be achieved with a pre-treatment that is compatible with the subsequent coating. Cross-compatibility of lubricants, cleaners and coatings is monitored in our state-of-the-art research facilities and laboratories. Our quality checking guarantees a reliable process chain starting with forging, forming and metal cutting through to cleaning, corrosion protection and coating.



QUALITY ASSURANCE

Once a surface has been coated, it is extremely difficult to process it again; therefore high levels of quality are essential, even when coating mass-produced parts. Strict quality control procedures are in place when manufacturing our **gleitmo** range of coatings to ensure consistent product that has been manufactured to exact specifications.



APPLICATION **ASSISTANCE**

For customers who do not have the right application equipment, or need specialist application support, we offer our **gleitmo**-coating service. The **gleitmo**-coating centre is fitted with the latest plant technology. The experienced team of experts use a rigorous procedure to precisely determine the best coating for the individual component. The attention to detail throughout the selection and coating process ensures the components have undergone optimum preliminary treatment, coating and checking.

SPECIALIST APPLICATION AREAS



ASSEMBLY AIDS

SFL coatings for threaded connections - approved for use by leading automotive OEM's. For example, **gleitmo 2332V** is designed to withstand the high temperatures in exhaust systems (up to 200°C) and helps to prevent seizures.



O-RINGS

Specialist O-Ring surface treatments for various application needs. Our coatings are non-stick, age resistant and help ease assembly. Coloured coatings are available for simple identification.



TRANSPARENT COATING

Transparent solid film lubricant coatings contain a special indicator, which is visible under a UV lamp for control analysis. Ideal for use where a good cosmetic finish is required.



SCREWS

Dry film coating to reduce friction and galling, thereby preventing seizure of bolt threads. Our coatings also provide good corrosion protection allowing storage of the parts prior to assembly.

FIELDS OF APPLICATION

	gleitmo 900	gleitmo 905	gleitmo 920	gleitmo 925	gleitmo 935	gleitmo SFL 9540	gleitmo SFL 9563	gleitmo SFL 9560	gleitmo 960	gleitmo 961	gleitmo 980	gleitmo 985	gleitmo 2332 V	gleitmo SFL 9062	gleitmo SFL 9574	gleitmo SFL 9460	gleitmo SFL 9680
Assembly aid																	
Bushes																	
Chain lubrication																	
Clinch bolts																	
Cold extrusion/forming																	
Dowel pins																	
Dry lubrication																	
Electromagnetic cores																	
Elevating spindles																	
Gear couplings																	
Gear racks																	
Glass moulding machinery																	
Hinges																	
Household equipment																	
Hydroforming																	
Lifetime lubrication																	
Mass part coating																	
O-rings																	
Oxygen fittings																	
Plastic slides																	
Plastic switches																	
Press-on/press-in																	
Reduction																	
Running-in lubrication																	
Screws																	
Shaft bearings																	
Springs/braces																	
Stick-Slip																	
Textile machinery																	
Transparent coating																	
Turbine bolts/blades																	
Universal joints/drive shafts																	
Vacuum																	

CHARACTERISTIC DATA

<div></div> Appropriate																	
<div></div> Conditionally suitable																	
	gleitmo 900	gleitmo 905	gleitmo 920	gleitmo 925	gleitmo 935	gleitmo SFL 9540	gleitmo SFL 9563	gleitmo SFL 9560	gleitmo 960	gleitmo 961	gleitmo 980	gleitmo 985	gleitmo 2332 V	gleitmo SFL 9062	gleitmo SFL 9574	gleitmo SFL 9460	gleitmo SFL 9680
Solid lubricant																	
PTFE																	
MoS2																	
Graphite																	
Binder																	
Organic																	
Inorganic																	
Air-drying																	
Heat-curing																	
Water-miscible																	
Load carrying capacity	(surface pressure)																
Slight (<10 N/mm²)																	
Medium (10-200 N/mm²)																	
High (>200 N/mm²)																	
Corrosion protection																	
Application																	
Spraying																	
Dip-centrifuging																	
Tumbling																	
Coatable materials																	
Ferrous products																	
Light alloys																	
Non-ferrous heavy metals																	
Plastic materials																	
Elastomers																	
Wood																	
Dry residue non volatile part [%]	36	25	27	28	27	29	32	34	20		5	12	31	36	41	32	5
Coverage rate (m²/Ltr)	15	20	10	25	25	12	10	10	12		30	20	15	10	10	20	20
Hardening temp. (°C)	20	20	150	20	20	200	130	130	20	20	20	20	200	100	200	100	100
Service temp. range (°C)																	
Min.	-180	-180	-180	-180	-180	-180	-180	-180	-180	-180	-180	-180	-180	-180	-180	-180	-180
Max.	+400	+400	+250	+250	+250	+300	+140	+140	+350	+350	+250	+250	+1200	+140	+250	+250	+180
Short term up to							+250	+250	+600	+600				+250			+250