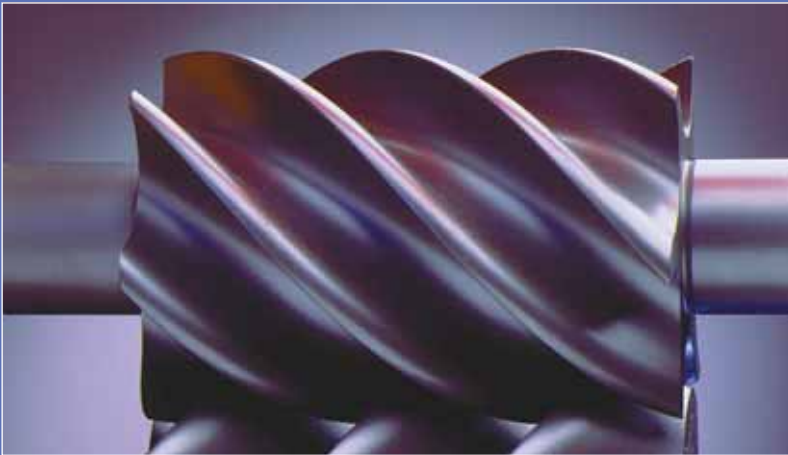


Manufacturing Programme



5

Solid Film Lubricants

- HMP films
- Solvent-based solid film lubricants
- Water-based solid film lubricants

HMP films are colloidal dispersions in water using high-molecular polymers (HMP). They are preferably applied by dipping, and when dry create a tenacious, non-slip anti-friction film. The main field of application of HMP films is the coating of screws, where reduced friction and the elimination of coating thickness variation is crucial. However they have proven their value over a wide range of other lubrication applications.

Solid film lubricants and anti-friction coatings are formulated to reduce both friction and wear in many tribological applications. They form highly effective dry lubricating films making it possible to pre-treat and store lubricated parts ready for assembly. They are characterised by being highly resistant to extremes of pressure and temperature. They are resistant to ageing and do not become tacky thus making the coated parts clean and easy to handle.

FUCHS LUBRITECH Solid Film Lubricants (SFL) give outstanding lubricating and protective properties, they also

improve running-in processes and protect against surface damage. At the same time they prevent cold welding (e.g. with stainless steel), aid flow during moulding and prevent stick-slip in the case of slow, oscillating movements. In addition they guarantee optimum threaded connections.

In many cases customised coating can be the most economic method for the production of machine parts making them ready for assembly and suitable and ideal for robotic handling.

FUCHS LUBRITECH has the capability to offer SFL coatings on a commercial scale in our gleitmo-bond coating centre, where experienced specialists ensure that the correct SFL coating is chosen for each material and application, and that it is applied correctly - reliably, economically and on time.

Product	Product code	Colour	Temperature range in °C	Yield in kg *	pH-value	Coefficient of friction **	Flash point in °C	Thinner	Available as spray
	Short description								

HMP films									
gleitmo 300	0139	transparent/silk dull	-40 / +50		-		27	-	
	Dry film, grease and oil-free								
gleitmo 603	0334	colourless	-40 / +80	0,1-0,4	8,5-9,5	0,13	without	Drinking water	
	Suspension of gleitmo white solid lubricants in water (also available as gleitmo 603 blau and gleitmo 603 grün)								
gleitmo 605	0710	colourless-bright	-40 / +110	0,1-0,4	8,5-9,5	0,09	without	Drinking water	
	Dry lubricant film for screw coating								
gleitmo 615	0166	colourless	-40 / +110	0,1-0,4	5,0-6,0	0,07	without	Drinking water	
	Dry lubricant film for coating of mass parts								
gleitmo 625	0135	silk dull	-40 / +110	0,2-0,5	5,0-6,0	0,07	without	Drinking water	
	Dry lubricant film for coating of mass parts								
gleitmo 627	0251	silk dull	-40 / +110	0,2-0,5	5,0-6,0	0,06	without	Drinking water	
	Dry lubricant film for coating of mass parts								
gleitmo HMP 8040	0388	silk dull	-40 / +100	0,1-0,4	7,5-8,5	0,09	without	Drinking water	
	Dry lubricant film for coating of mass parts								
gleitmo HMP 8050	4850	silk dull	-40 / +90	0,1-0,4	7,0-8,0	0,10	41	Drinking water	
	Dry lubricant film for coating of mass parts								
gleitmo 2345 V	0102	transparent/silk dull	-40 / +70		8,5-9,5		without	Drinking water	
	Dry lubricant film for rubber parts, noncutting metal forming								
gleitmo HMP 9020	0522	black	-40 / +120		6,0		without	-	
	MoS ₂ - film								
gleitmo HMP 9021	0521	black	-40 / +120		6,0		without	-	
	MoS ₂ - film								

Approvals

gleitmo 603:	Volvo, Saab, VW (only for gleitmo 603 grün)
gleitmo 605:	BAM, Bosch, DVGW, General Motors, KTW, MAN, Renault, PSA, VDA, Volvo, VW, Würth
gleitmo 615:	Würth
gleitmo 625:	VW
gleitmo 627:	Volvo

* Required quantity of lubricant per 100kg coated parts.

** Coefficient of friction at first tightening, dilution ratio 1:3, screw test acc. to DIN 946 with screws acc. to DIN 933 M 12, 8.8, Zn. Tightening torque 71 Nm. Further friction values are available on request.

Cleaner									
gleitmo HMP CLEANER	3603								
	Cleaner for dry gleitmo HMP films								
gleitmo HMP CLEANER is particularly suitable for the removal of dry coatings of gleitmo 605. In addition to this, however, all other gleitmo HMP films can easily be removed with it (Exception gleitmo 603).									

Product	Product code	Colour	Temperature range in °C	Yield in m ² / kg Solid film	Binder	Solid lubricants	Flash point in °C	Thinner	Available as spray
	Short description								

Solvent-based solid film lubricants

gleitmo 900	0117	grey-black	-180 / +400	15	inorganic	MoS ₂ , Graphite	27	gleitmo 901	
	MoS ₂ - solid film lubricant for nuts, screws, tension pins, ball joints at high temperatures								
gleitmo 920	0149	grey-black	-180 / +250	10	organic	MoS ₂ , Graphite	25	gleitmo 920 V	
	MoS ₂ - solid film lubricant for gear wheels, bolts and screws								
gleitmo 960	0185	black	-180 / +350	12	inorganic	Graphite	> 21	gleitmo 901	
	Graphited solid film lubricant for high temperature lubrication								
gleitmo 980	0120	silk dull	-180 / +250	30	inorganic	mod. PTFE	27	gleitmo 980 V / gleitmo 901	
	PTFE - solid film lubricant for assembly lubrication of different material pairings, especially for plastics and elastomers								
gleitmo SFL 9540	0540	grey-black	-180 / +300	12	organic	Graphite, MoS ₂ etc.	25	gleitmo 9540 V	
	Solid film lubricant to improve running-in, to protect against surface damages and wear, for pulleys, bearing parts, gear wheels								
gleitmo SFL 9560	0385	white	-180 / +140	10	organic	PTFE	32	gleitmo 950 V	
	White PTFE-containing solid film lubricant for lubrication of metals at high abrasive loads								
gleitmo SFL 9563	0563	black	-180 / +140	10	organic	PTFE, MoS ₂	31	gleitmo 950 V	
	Heat-curing solid film lubricant with PTFE and MoS ₂ for metal coating and switch parts								
gleitmo SFL 9574	5276	grey-black	-180 / +250	10-15	organic	PTFE, MoS ₂ etc.	30	gleitmo 9540 V	
	Heat-curing 2-component solid film lubricant system for bearing parts and parts of cylinder locks of doors								
gleitmo SFL 9680	5650	transparent	-70 / +180	-	special	-	27	CTP V 901	
	3-component solid film lubricant for dry lubrication of elastomers								

Approvals

gleitmo 900: ABB, Volvo
 gleitmo 980: Saab, ISEGA-Approval for applications in food industry

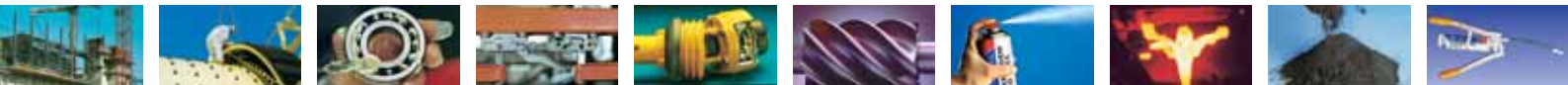
Water-based solid film lubricants

gleitmo 905	0145	grey-black	-180 / +400		inorganic	MoS ₂ , Graphite	without	deionised water	
	Water-based MoS ₂ - solid film lubricant for screws and tension pins								
gleitmo 925	0177	grey-black	-180 / +250		organic	MoS ₂ , Graphite	without	deionised water	
	Water-based MoS ₂ - solid film lubricant for screws, cup springs, tooth wheels, bearing parts								
gleitmo 935	0293	grey-black	-180 / +250		organic	MoS ₂ , Graphite	without	deionised water	
	Water-based MoS ₂ - solid film lubricant especially for threaded caps of oxygen cylinders								
gleitmo 965	0260	grey-black	-180 / +250		organic	Graphite	without	deionised water	
	Water-based solid film lubricant with graphite for metal forming, fluid bulge forming and sliding bars								
gleitmo 985	0179	silk dull	-180 / +250	20	organic	mod. PTFE	without	deionised water	
	Water-based solid film lubricant with PTFE for dry lubrication of elastomers, plastics and metals at lower loads								
gleitmo SFL 9062	3662	black	-80 / +140		organic	PTFE	without	deionised water	
	2-component PTFE solid film lubricant for dry lubrication of plastics and metallic materials								
gleitmo SFL 9460	3460	black	-70 / +250		organic	PTFE	without	deionised water	
	2-component PTFE solid film lubricant for dry lubrication of elastomers								

Approvals

gleitmo 925: Volvo
 gleitmo 935: BAM
 gleitmo 985: VW, ISEGA-Approval for applications in food industry

Product range



Release Agents - Cleaner and release agents for bitumen and concrete in building construction/civil engineering and pre-cast concrete plants.

Adhesive Lubricants - Highly graphited lubricants for a wide application range. Also recommended for high-temperature lubrication.

Lubricating Greases - Different greases for plain and anti-friction bearings, rail-, wheel flange and switch lubricants and food grade greases.

Lubricating Fluids - Lubricating fluids for lifetime and loss lubrication of chains, wire ropes and compressed air tools.

Pastes and Grease Pastes - MoS₂-pastes, white lubricating pastes, grease pastes and high-temperature pastes.

Solid Film Lubricants - Solvent or water-based lubricants reducing friction and wear. Extremely resistant against pressure, high and low temperatures.

Aerosols - Sprayable release agents, adhesive lubricants, lubricating greases and fluids, pastes, grease pastes and solid film lubricants.

Metal Forming Lubricants - Water- and non-water-miscible lubricants for hot forming. Die casting release agents and auxiliary casting materials.

Chemo-technical Products - Solid lubricants as powder, corrosion protection products, cleaner and thinner for numerous application areas.

Application Equipment - One- and two-handed patented grease guns ("System Reiner"), hand lever grease guns, spray nozzles and equipment for die-casting technology.

GLASOL - Lubricants for the Glass Industry - Cutting oils, grinding fluids, separating agents and coolants for use in the manufacture of flat/plate glass, container glass and optical glass.



FUCHS LUBRITECH GMBH
 Hans-Reiner-Str. 7-13
 67685 Weilerbach/Germany
 Internet www.fuchs-lubritech.com

Phone ++49 (0) 63 74 / 9 24-5
 Fax ++49 (0) 63 74 / 9 24-9 40
 E-mail info@fuchs-lubritech.de