FUCHS Special Applications

GLEITMO

Solid Film Lubricants for elastomer products

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MOVING YOUR WORLD

Solid Film Lubricants – the clean solution for your elastomer product

Solid Film Lubricants – clean and flexible

Different lubricants are applied in order to assemble sealings and O-rings easily and without damage. During continuous operation, low friction coefficients and wear protection are required. Conventional lubricants, such as oils or greases, used to meet these requirements. In the past few years, however, dry lubrication with Solid Film Lubricants is substantially gaining in importance in this application field.

The dry alternative

Solid Film Lubricants are sophisticated combinations of solid lubricants and organic or inorganic binders. Different processes may be used for their application. On the components they form a dry separating and lubricating layer in order to reduce friction and wear. Some Solid Film Lubricants may also be coloured using GLEITMO COLOUR products to mark different sealings or other elastomer products. To achieve the best quality, the coating is applied in different process steps. Each step is essential for the result.

Thorough cleaning and plasma activation are pretreatments optimizing the adhesion and durability of the coating. The main application processes are spraying and dipping. Selecting the appropriate process is subject to the component's geometry, the properties of the Solid Film Lubricant, and the requirements on the coating. Subsequent drying and thermosetting results in a touchproof layer. The coated parts can then be stored and assembled without manual lubrication. Solid Film Lubricants are very dirt-resistant and provide clean assembly conditions compared to conventional lubricants. Furthermore, their nonstick property allows automated feeding of O-rings without sticking together. Low friction coefficients prevent assembly damage and minimize noise caused, for example, by stick-slip.

Our coating shop

You do not have to coat your parts yourself. Please feel free to ask us for an offer.

Selection guide for your election

		GLEITMO 2345V	GLEITMO 980	GLEITMO SFL 9085	GLEITMO SFL 9680/ SFL 9680 TF	GLEITMO RLC 3000	GLEITMO RLC 3100	GLEITMO RLC 4000	GLEITMO RLC 4300
lubricant	polymer	■							
	polysiloxane				■			■	
	PTFE		■	■		■	■		■
binder	organic			■		■	■		■
	inorganic		■		■			■	
	solvent-based		■		■				
	water-based	■		■		■	■	■	■
	hardening temperature [°C]	RT	RT	RT	100	125	100	100	RT
specialities	available in different colors						■		
	media-resistant		+	+	++	+	++	++	+
especially suitable for	EPDM	■		■	■	■	■	■	■
	NBR	■	■	■	■	■	■	■	■
	MVQ		■		■			■	
	AEM/ACM	■			■				
	FKM			■	■		■	■	
functionality	facilitation of assembly	++	+	++	+++	++	++	+++	+++
	dynamic applications			+	+	++	++	+	+

RT = room temperature

+ good ++ very good +++ excellent

Your Coatings Team will be pleased to advise you on the selection of the ideal lubricant.

FUCHS LUBRICANTS GERMANY

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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