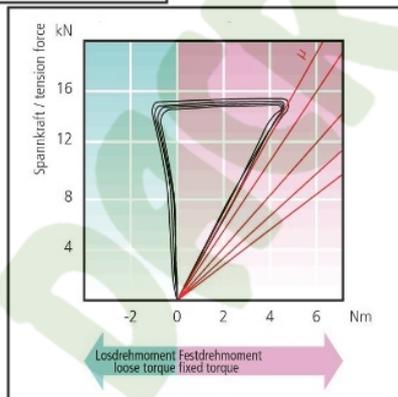
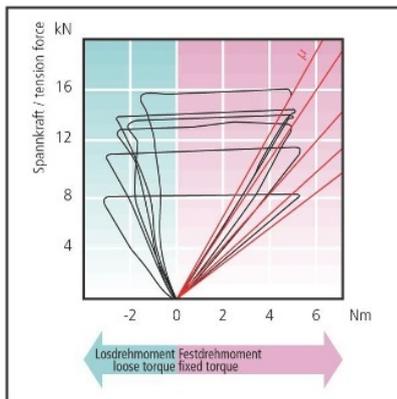


Coating of screws for lubrication purposes and minimising variations in coefficient of friction

gleitmo® HMP Films

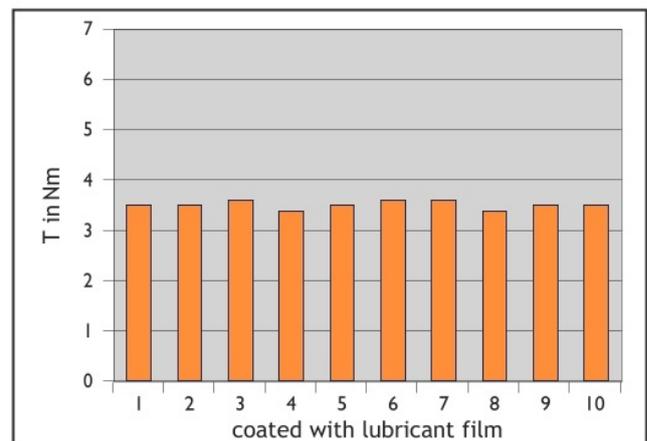
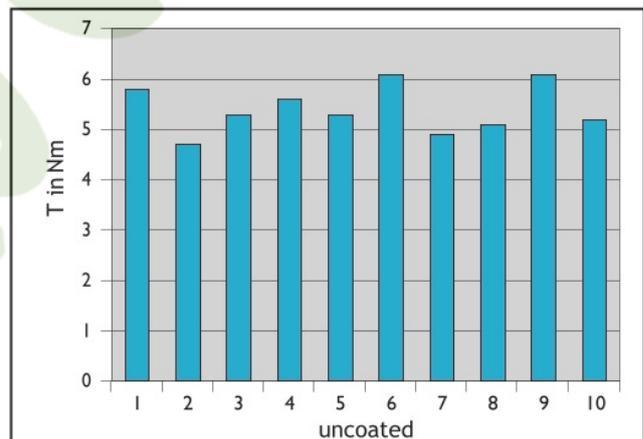
HMP films are colloidal dispersions in water of high-molecular polymers. After drying, they create a firmly adhering, dry film that is fast to handling. They are mainly used for coating screws, in order to lower the coefficient of friction and minimize the variations of the coefficient of friction.



In normal use uncoated metric screws exhibit a very considerable variation in the coefficient of friction. Since the majority of screwing operations are torque-controlled, this gives rise to considerable fluctuations in the tension load, which are unacceptable. With screws coated with HMP films there is only a very slight variation of the coefficient of friction μ , with the result that during installation there are reproducible tension loads.

With chipboard screws and thread-forming screws it is desirable to have as low a coefficient of friction as possible so that the screws may be driven in more easily and the danger of shearing can be significantly reduced. HMP films produced by FUCHS LUBRITECH have proved themselves in the best possible way for coating these screws.

FUCHS LUBRITECH offers a wide range of HMP films, covering all the existing coefficient of friction demands of the industry. They are approved i.a. by Bosch, General Motors, MAN, Saab, Volkswagen, Volvo and Würth.



AUM DACRO COATINGS

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Coating of screws for lubrication purposes and minimizing variations in coefficient of friction

The most important properties of gleitmo HMP films:

Non-slipping and dry

Film is glossy transparent or satin matt Reduction of the coefficient of friction and its variations

Economical in use, since it can be diluted with water (usual dilution ratios 1:3 to 1:7)

Facilitation of installation and computability of screw connections

Ageing –resistant and waterproof

Compatible with metal and plastic

Environmentally- and user-friendly, since they are water-based

May be over-painted with most paints With UV light additive for coating control

Proven in practice and recommended by well-known companies

Simple to apply using an immersion centrifuge or immersing bath

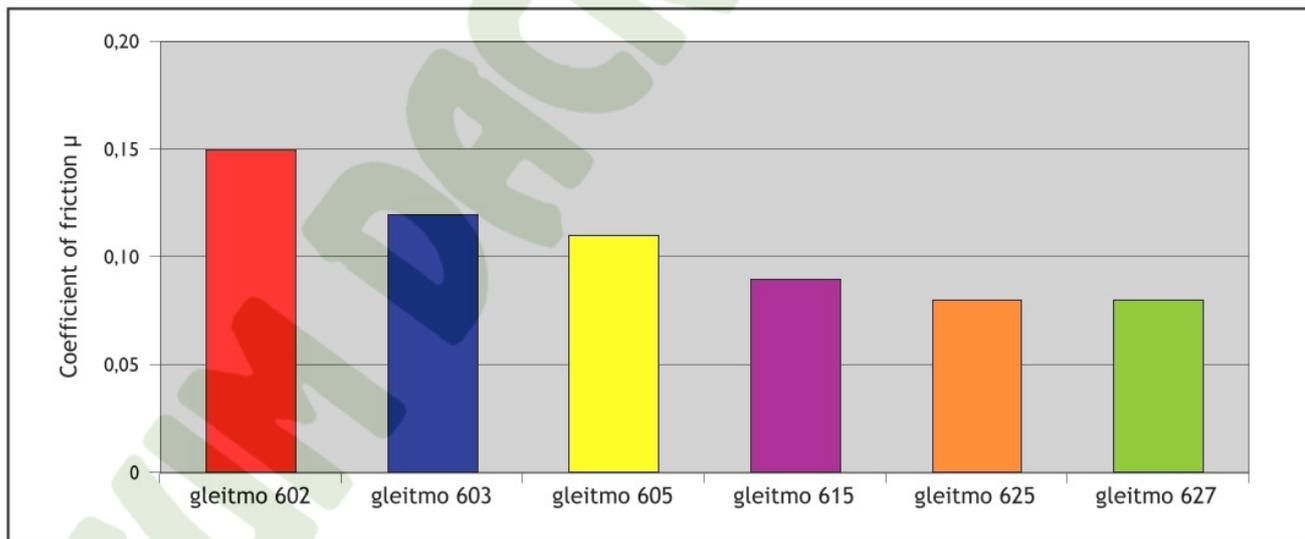
The diagram below shows a comparison of the coefficients of friction using various HMP films on the same type of screw.

Apart from the HMP film the coefficient of friction is affected by a series of additional parameters:

- Galvanized initial treatment
- screw geometry
- coating processes

Because of these factors the resultant coefficients of friction can vary from those shown above. What is decisive, however, is that the resultant coefficient of friction shows a high degree of reproducibility for the same coating parameters.

Apart from lubricating screws HMP films have proved their worth with other parts. Examples of this are rivets or lubricating O-rings to make them easier to assemble.



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