



# LS 848

#### PTFE ANTI-FRICTION COATING

### **Product Features**

After application and evaporation of the solvent (water) smartGLEIT LS 848 produces a dry, barely visible solid film layer with excellent adhesion even on smooth surface. This makes the smart-GLEIT LS 848 suitable as a universal dry sliding film.

In addition LS 848 provides excellent release properties and therefore is perfect for optimised demoulding of rubber and elastomer parts.

- Thin, barely visible sliding film
- Good adhesion on most substrates
- Good lubrication performance, low and constant friction values
- Good release properties
- Wide service temperature range
- Water based, thus environmentally friendly

smartGLEIT LS 848 is a water based anti-frictioncoating containing especially selected PTFE lubricant dispersion and a matching binder resin thereto.

# **Product Application**

smartGLEIT LS 848 is a universal solid film lubricant and release agent. Typical Applications:

- Stiff or jamming friction contacts on
  - slideways, guides, ...
  - joints
  - locks

made of wood, plastic or metal

- Mechanical plastic parts like spindles, adjusting mechanisms, actuators, switching cams,
- Keepers of contactors
- O-rings, gaskets, laminar sealing rings,..
- Screws and nuts
- Release agent for rubber and elastomer production, e.g. for extrusion of rubber hoses (friction contact rubber hose — steel mandrel)

## **Instructions for Use**

- smartGLEIT LS 848 usually is used as delivered; If needed, it may be diluted up to 1:2 (LS 848:H<sub>2</sub>O).
- De-ionised water has to be used as diluent.
- Following application methods are possible:
  - Spraying all industry standard methods are possible
  - Dip-coating especially effective with bulk material or non scooping parts
  - Dip-spin-coating the industry standard for bulk materials also for scooping parts
  - Paint-roller or brush-application when other methods are not possible
- Stir well before use and also regularly during use Please take care that the fluid vortex is laminar, so no air will be stirred into the product.
- smartGLEIT LS 848 should be applied on clean surfaces only.





- Usually only one friction partner is coated ideally the one "with the longer sliding distance".
- After the wet film is applied, the solvent must be evaporated to get a dry film. We recommend preheating the parts to be coated (approx. 50–70 ° C / 122–158 °F) and / or drying with warm air (~50–70 °C/ ~122–158 °F). Besides speeding up the process this will help to generate an even coating. In general the wet time of the applied coating should be kept as short as possible.
- The coating equipment should be cleaned after the job is done please close the coating bath or the container after work.
- Avoid burrs or sharp edges on sliding partners.
- The adhesion of the coating can be significantly increased by using pretreatments e.g. sandblasting, phosphating, anodising or oxalating.
- Protect (liquid) product from frost!

Test/Feature	Standard/ Parameter	Unit	LS 848	
Appearance (as delivered)	visually	—	whitish liquid	As Delivered
Density	DIN 51757	g/cm <sup>3</sup>	~ 1.05	
Viscosity	DIN 53211 / 3 mm	S	35 – 50	
Thinner	_		water ("drinking water quality or de-ionised")	
pH-Value	—		7.8 – 9	
Available Container Sizes	—		25 kg plastic pail	
Shelf Life - Closed original container		months	4 after delivery	
Hazard Notes	_		pls. see SDS	
Appearance (Applied)	visually		semi-matt dry film	Applied
Drying Time			20–30 min @ 20 °C / 68 °F	
Operating Temperature	—	°C/°F	-70 to +250 / -94 to 482 °F	
Friction Value $\boldsymbol{\mu}$	screw-test		~0.09	
Layer Thickness		μm	2–5 (up to 10)	

## Product Characteristics smartGLEIT LS 848

The information given and the recommendations made herein reflects our current knowledge and can only provide a first overview in this brochure. The given values are not eligible for creating specifications. We reserve the right to make changes based on technical developments or changes in legislation. Due to the wide range of possible applications and operating conditions, the product information can only be indicative of possible applications. Therefore, no binding liability and warranty claims can be derived. In any case we strongly recommend to carry out tests before use and thus determine if the product is meeting all requirements and expectations.