



LS 808

MoS₂ ANTI-FRICTION COATING

Product Features

After application and evaporation of the solvent (water) smartGLEIT LS 808 will result in a dry, grey-black solid film layer with good adhesion on the surface. smartGLEIT LS 808 can be used as dry film lubricant as well as hybrid lubrication system in combination with oil or grease.

- Grey-black, dry film lubricant
- Good adhesion on most substrates
- Very high pressure resistance
- Low, stable and reproducible coefficient of friction
- Good oil resistance
- Wide temperature range from -70 to +250 °C
- Water based, thus environmentally friendly
- Effective against stick-slip

smartGLEIT LS 808 is a water based anti-frictioncoating, containing an organic binder resin and a synergistic combination of solid lubricant with MoS₂.

Product Application

smartGLEIT LS 808 can be used as dry lubricant in all applications where lubrication with oil or grease ist not possible. LS 808 is perfect for dry lubrication of mechanical elements during assembly or improving the running-in procedure of highly loaded components.

smartGLEIT LS 808 is also well suited for metal forming processes of critical materials. Cold fretting will be avoided and high deformation ratios are possible. Application examples:

Typically LS 808 is applied on:

- Bushings, gears, rivet bolts and dowel pins
- Bolts and nuts of stainless steel
- Washers
- Hot galvanised fasteners of steel construction
- Metal forming cold extrusion, hydroforming, bulging, upsetting

Instructions for Use

- smartGLEIT LS 808 usually is used as delivered. 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 808 should be applied on clean surfaces only.
- We recommend a layer thickness of approx. 10 to 20 μ m.
- Water of at least drinking water quality (de-ionised water preferred) can be used as diluent.





- 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. 60 90 °C / 140–194 °F) and / or drying with warm air (~60–120 °C/ ~140–248 °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 as e.g. sandblasting, phosphating, anodising or oxalating.
- Protect product from frost!

Test / Feature	Standard/ Parameter	Unit	LS 808	
Appearance (as delivered)	visually	—	grey-black liquid	As Delivered
Density	DIN 51757	g/cm ³	~ 1.2	
Viscosity	DIN 53211 / 3 mm	S	22–32	
Thinner			water ("drinking water quality or de-ionised")	
pH-Value			7.2 – 8.2	
Available Container Sizes			5 kg / 25 kg plastic pail	
Usable Life - Closed original container		months	9	
Handling Precautions	_	—	none	
Appearance (Applied)	visually		grey-black dry film	Applied
Drying Time			40–60 min @ 20 °C / 68 °F	
Service Temperature	_	°C /°F	-70 to +250 / -94 to 482	
Friction value $\boldsymbol{\mu}$	Screw-Test		~0.08	

Typical Properties smartGLEIT LS 808

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.