smartGLEIT®
FRICTION MEETS ENGINEERING

LS 888

HEAT CURING ANTI-FRICTION COATING

smartGLEIT LS 888 is a solvent based, heat curing anti-friction-coating with a synergistic combination of solid lubricants containing MoS_2 and a high performance organic binder resin.

Product Features

smartGLEIT LS 888 is a high performance anti-friction coating.

- Dark grey dry film lubricant with high adhesion level on various surfaces
- High level of media resistance
- Constant, reproducible and very low coefficient of friction
- Very high pressure resistance
- Suitable for dry lubrication as well as hybrid lubrication (e.g. in combination with greases or oils)
- Wide range of working temperatures (-70 to +280 °C, for short times up to 300 °C)
- Good Corrosion protection (non cathodic)

Product Application

- smartGLEIT LS 888 can be recommended whenever lubrication with oil or grease is not possible or not desired.
- LS 888 plus oil/grease is a perfect combination for running-in of various machine elements under high loads and/or high temperature conditions.
- LS 888 is also well suited for lifetime lubrication (dry, solid lubrication as well as hybrid lubrication) of many mechanical elements
- Examples:
  - gears (for superb running-in)
  - plunger-type armatures
  - chains, (also for conveyer systems)
  - screws and nuts, bolts, rivets, washers
  - spindle drives, shaft-hub connections
  - journal bearings, slideways
  - high temperature lubrication, etc.

Instructions for Use

- smartGLEIT LS 888 can be applied with common industrial application technologies, such as
  - Spraying - for best layer quality
  - Dip-coating - for non scooping parts (‚medium size')
  - Dip-spin-coating - for bulk parts
  - Roll or brush - special applications
- Depending on application LS 888 can be used as delivered or diluted (Thinner TC 88-NE, which also used for cleaning the application equipment).
- The product must be stirred well before use and regularly during processing. Please take care that the fluid vortex is laminar, so no air will be stirred into the product.
- Coating of one friction partner usually is sufficient (best the one with the longer sliding distance).

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- The surface to be coated has to be clean – pretreatments such as sandblasting, phosphating, plasma usually increase the layer adhesion.
- We recommend a layer thickness of 10 to 20 µm - but this may vary depending on application.
- In order to achieve media resistance and best lubrication performance, the dry coating must be cured at elevated temperatures.
- In most cases it is beneficial to preheat the parts before applying the coating (60 to max. 150 °C, (140 to max 302 °F) depending on application).
- Look for application friendly design – avoid burrs or sharp edges.
- Clean application equipment after use (Thinner TC 88-NE) and keep coating in closed containers or closed dipping baths.
- For further technical support please ask our technical service - we will be happy to support you.

Typical Properties smartGLEIT LS 888

Test / Feature	Standard/ Parameter	Unit	LS 888	
Appearance (as delivered)	visually	—	dark grey laquer	*As Delivered*
Solid Lubricants (Type)	—	—	MoS_2	
Binder Resin			organic	
Density	DIN 51757	g/cm³	~ 1.1	
Viscosity	DIN 53211 / 4 mm	s	30 – 45	
Thinner	—	—	smartGLEIT TC 88 NE	
Flash-Point	DIN 51755	°C / °F	> 25 / 77	
Available Container Sizes	—	—	10 / 20 kg pail	
Usable Life - Closed original container		months	6	
Handling Precautions	—	—	see SDS	
Appearance	visually	—	dark-gray; dry film	*Applied*
Service Temperature	—	°C / °F	-70 to +280 / -94 to 536	
Curing	@ 250 °C / 482 °F @ 220 °C / 428 °F @200 °C / 392 °F	min	> 5 > 40 > 120	
Layer Thickness		µm	5 to 20	