



LS 8012

HEAT CURING ANTI-FRICTION COATING

smartGLEIT LS 8012 is a solvent based, heat curing anti-friction-coating with a synergistic combination of solid lubricants containing MoS₂ and a high performance organic binder resin.

Product Features

- Dark grey dry film lubricant with high adhesion level on various surfaces
- High level of media resistance
- Decorative finish
- 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 8012 can be recommended whenever lubrication with oil or grease is not possible or not desired.
- LS 8012 is also well suited for lifetime lubrication (dry, solid lubrication as well as hybrid lubrication) of many mechanical elements — some examples are:
 - gears
 - bearing bolts, clevis pins, adjusting cams
 - plunger-type armatures
 - spindle drives, shaft-hub connections
 - journal bearings, slideways
 - high temperature lubrication
 - etc.

Instructions for Use

- smartGLEIT LS 8012 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 8012 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).
- The surface to be coated has to be clean — pretreatments such as sandblasting, phosphating or 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 (see table below).
- 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) – Obey safe handling instructions of product!
- 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 8012

Test / Feature	Standard/ Parameter	Unit	LS 8012	
Appearance (as delivered)	visually	—	dark grey laquer	As Delivered
Solid Lubricants (Type)	—	—	MoS ₂	
Binder Resin			organic	
Density	DIN 51757	g/cm ³	~ 1.1	
Flash-Point	DIN 51755	°C / °F	> 25 / 77	
Viscosity	DIN 53211 / 5 mm	s	33–47	
Thinner	—	—	smartGLEIT TC 88 NE	
Available Container Sizes	—	—	10 / 20 kg pail	
Usable Life - Closed original container		months	6	
Handling Precautions	—	—	see SDS	Applied
Appearance	visually	—	dark-gray; dry film	
Service Temperature	—	°C / °F	-70 to +280 / -94 to 536	
Curing (holding time @ temp.)	@ 250 °C / 482 °F @ 220 °C / 428 °F @ 200 °C / 392 °F	min	> 5 > 40 > 120	
Layer Thickness		µm	5 to 25	