



# LP 465

## HIGHTEMPERATURE SCREW- AND LUBRICATION-PASTE

smartGLEIT LP 465 is a homogenous, blue-grey, hot screw paste based on a biodegradable synthetic base oil and special solid lubricants, resistant to high temperatures.

### Produkt Features

The synthetic base oil evaporates slowly, leaving very little residue. The remaining solid lubricants ensure good dry lubrication. The solids are selected and matched for high temperature resistance up to 1100 °C (2012 °F) and with no negative impact on the substrate material. Common ingredients, known for reactions at high temperatures with the screw material and thus weakening the substrate are not used – LP 465 is free of lead, copper, aluminium, sulfur, MoS<sub>2</sub>, etc..

- Very good lubrication and release properties
- Constant, reproducible friction values
- Prevents seizure and scuffing of friction partners — maintenance friendly release torque

### Product Applications - Examples

smartGLEIT LP 465 was specially developed as a hot screw compound, but is also perfect for use at lower temperatures showing good lubricity and high water resistance.

- Generally suited for screws, nuts, washers and bolts used in high temperature applications securing the detachability after operation loads, for example:
  - high temperature screws in power plants (turbine bolts, flange connections,...)
  - in chemical plants, refineries or heating systems, automotive industries (Exhaust systems, spark plugs, lambda sensors, wheel bolts), ....
- Universal screw and bolt lubrication at „normal“ temperatures - also for any stainless steel screws.
- Lubrication of bolts, sliding guides or mechanical elements which are operated at elevated temperatures and low sliding speeds.

### Instruction for Use

- smartGLEIT LP 465 can be applied by brush or lint-free cloth on preferably clean surfaces - apply a sufficient quantity and ‚force‘ the paste into the full depth of the thread - excessive paste may be left.
- For serial application, LP 465 may be applied by means of suitable automatic dosing systems.
- Do not mix with other greases or pastes - this will reduce the performance.
- LP 465 is not suited for use in fast running machine elements.

## Typical Properties smartGLEIT LP 465

TEST/FEATURE	STANDARD/PARAMETER	UNIT	LP 465
Colour	visually	—	blue-grey
Base Oil	—	—	synthetic oil
Viscosity @ 40 °C / 104 °F	DIN 51805	mm <sup>2</sup> /s	50
Density	DIN 51757	g/cm <sup>3</sup>	~1.2
Drop Point	DIN ISO 2176	—	none
Penetration	DIN 51804, Bl. 1	mm/10	265 - 295
NLGI Class	DIN 51818	—	2
Service Temperature	—	°C / °F	-25 to + 1100 / -13 to + 2012
Screw Test - Friction Value	M12 / 8.8	—	0.11
Brugger Value	DIN 51347	MPa	~130
Water Resistance	DIN 51807	—	0 - 90
Usable Life (Closed Original Container - Bulk Ware)		months	36
Usable Life (Aerosol, From Date of Delivery)		months	12
Available Packaging	—	250 g 500 g 1 kg 5 kg / 25 kg 200 kg	plastic can; 12 per box cartridge plastic can, 6 per box plastic pail drum
Handling Instructions	—	—	see SDS