



LP 475

THE SCREW PASTE!
(UP TO 1200 °C / 2192 °F)

smartGLEIT LP 475 is a homogenous, blue-grey, hot screw paste based on a biodegradable synthetic base oil and special solid lubricants resistant to high temperatures..

Product 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 1200 °C (2192 °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 475 is free of lead, copper, aluminium, sulfur, MoS₂, etc..

- LP 475 is the leading benchmark for high temperature screw pastes.
- Metallurgically compatible – protects the surface from scale build-up.
- Constant, reproducible friction values, very low scattering.
- Prevents seizure and scuffing of friction partners — maintenance friendly release torque.

Product Applications - Example

smartGLEIT LP 475 was specially developed as hot screw compound, but is also perfect for use at lower temperatures. LP 475 is also well suited for lubrication of machine elements operating at high temperatures and need safe separation of friction contacts.

- 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 475 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.
- Spray application via aerosol can is especially beneficial when larger areas have to be coated.
- For serial application, LP 475 may be applied by means of suitable automatic dosing systems.
- Do not mix with other greases or pastes - this will reduce the performance.
- LP 475 is not suited for use with fast running machine elements.

Typical Properties smartGLEIT LP 475

TEST/FEATURE	STANDARD/PARAMETER	UNIT	LP 475
Colour	visually	—	blue-grey
Base Oil	—	—	biodegradable synthetic oil
Density	DIN 51757	g/cm ³	~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	- 40 to + 1200 / -40 to + 2192
Screw Test - Friction Value	DIN ISO EN 16047 M12 / 8.8 M12 / A2	—	0.09 – 0.11 0.12 – 0.15
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 - 20 per box plastic can, 6 per box plastic pail 200 kg steel drum — open head
Handling Instructions	—	—	see SDS