



LP 450

THE CLASSIC MoS₂ PASTE WITH SYNTHETIC BASE OIL

smartGLEIT LP 450 is a homogenous, grey-black colored lubrication paste, based on synthetic oil and a high content of synergistic solid lubricants with MoS₂.

Product Features

smartGLEIT LP 450 is the classic, synthetic MoS₂ paste. The synergistic combination of solid lubricants in smartGLEIT LP 450 provides highest lubrication properties, outstanding pressure resistance, a wide service temperature range plus dry lubrication properties. Furthermore LP 450 is characterised by following properties:

- Very high pressure resistance
- Prevents from stick-slip
- Very high load carrying capacity
- Constant, low friction values especially at very high contact pressures
- Ideal for optimized running-in with emergency running properties
- The base oil evaporates with very little residues — good for flawless dry lubrication
- Synthetic oil makes it more compatible with many plastics and elastomers

Instructions For Use

- smartGLEIT LP 450 usually is applied manually by spatula, lint-free cloth, brushes or the like. Specially adapted dispensing systems (suitable for feeding solid particles in a paste) may be used as well.
- Ideally clean the surfaces before application.
- Do not mix with lubricants of different oil base or check compatibility upfront application!
- smartGLEIT LP 450 might be dispersed with organic solvents (e.g. white spirit) for coating of bulk parts.
- Due to the high solids content, LP 450 cannot be used with faster running machine elements.

Applications - Examples

- smartGLEIT LP 450 is especially well suited for wear free assembly as well for running-in of highly stressed machine elements. Also LP 450 is used to lubricate machine elements at high temperatures.
- Typical Applications:
 - Assembly and running-in of various machine elements (e.g. joint bearings, bolts, pins, wheels, etc.)
 - Spindle drives running at high temperatures
 - High temperature lubrication of screws and bolts up to 450 °C / 842 °F
 - Facilitates shrink-fit/press-fit operations of bearings, bolts, wheels, ...

Typical Properties – smartGLEIT LP 450

TEST/FEATURE	STANDARD/ PARAMETER	UNIT	LP 450
Colour		—	grey/black
Base Oil		—	synthetic oil
Viscosity @ 40 °C / 104 °F	DIN 51805	mm ² /s	~ 180
Thickener		—	—
Service Temperature		° C/°F	-25 to 450 / -13 to 842
Solids Content		%	~ 50
Density	DIN 51757	g/cm ³	1.5
NLGI Class	DIN 51818	—	2
Brugger - Value	DIN 51347	MPa	not tested
Screw Test - Friction Value μ	M10x50-A4 / Ma = 40 Nm	—	~0.09
Press-Fit – Friction	μ	—	not tested
EMCOR	DIN 51802	—	not tested
Water Resistance	DIN 51807	—	0 - 90
Available Packaging		1 kg 5 kg	can – 6 per box Plastic Pail
Minimum Shelf Life		months	36
Handling Precautions			see SDS