microGLEIT®
TRIBOLOGY SOLUTIONS

PSV 710

HIGH PERFORMANCE LUBRICATION PASTE

microGLEIT PSV 710 is a homogenous, light coloured lubrication paste, based on lithium-soap, mineral oil and a high content of triboreactive, microWHITE solid lubricants.

Product Features

microGLEIT PSV 710 is based on an innovative combination of novel, microWHITE solid lubricants. When energy (load and relative movement) is supplied to the friction contact, the solids form a reaction layer with extraordinary high wear resistance — especially effective under mixed and boundary friction conditions as well as oscillation- and vibration loads.
The solid lubricants are not subject of hazard labelling according CLP- or GHS-regulations.

- Novel, microWHITE solid lubricants:
  - Fast build-up of a stable, wear-resistant, tribochemical layer
  - Particularly high protection level against fretting corrosion – the new benchmark
  - Extraordinary high load carrying capacity
- Universally applicable for
  - assembly
  - running-in
  - permanent lubrication and
  - as screw paste
- Service temperature range:
  - 20 to -100 °C / -4 to 212 °F
- Additional pretreatments like phosphating, gas nitriding will enhance the performance level.
- Suitable as well for copper alloys (e.g. bronze, LHG-1013).
- Modern formulation – no hazard labels required.

Applications - Examples

- microGLEIT PSV 710 is used for initial lubrication of machine elements, which are exposed to high pressures, shock loads, vibrations or oscillations with small strokes.
- Static or kinetic fretting wear (tribocorrosion, fretting corrosion) will be prevented or significantly reduced. Fretting of the friction partners will be avoided and the running-in phase shortens significantly.
- Typical Applications:
  - Sliding guides, adjusting wedges, sliding sleeves, hinges, joints
  - Connection elements like screws, nuts, rivets, bolts
  - Shrink fit connections
  - Keyed Connections (e.g. splined shafts, keyways)
  - Adjusting mechanisms (spindles, disc-cam mechanisms)
  - Bearings of machine beds, clamping elements
  - Ejectors
  - Rack-and-pinion gears, gearings
  - Leaf-, cup-, annular- and helical-springs
  - In general as substitute for black pastes (MoS_2, graphite)
- Note:
  - Before using the product in serial/practical applications, customers tests to ensure that the product is meeting all requirements for the intended end use have to be performed.

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Instructions For Use

- microGLEIT PSV 710 can be applied by means of grease guns, automatic dosing equipment (suited for pasty products with solids content) and also manually by spatula, lint-free cloth, brushes or the like.
- Clean surfaces before application – do not mix with other lubricants.

Typical Properties – microGLEIT PSV 710

TEST/FEATURE	STANDARD/ PARAMETER	UNIT	PSV 710
Colour		—	beige
Base Oil		—	mineral oil
Viscosity @ 40 °C / 104 °F	DIN 51805	mm^2/s	135
Thickener		—	Li-soap
Service Temperature		° C/°F	-20 to 100/ -4 to 212
Solids Content		%	50
Density	DIN 51757	g/cm^3	1,3
NLGI Class	DIN 51818	—	1 - 2
Brugger - Value	DIN 51347	MPa	> 350
FBM Load	DIN 51350	N	7500
Almen Wieland		kN	> 18
Screw Test - Friction Value µ	M10x50-A4 / Ma = 40 Nm	—	0,10
SRV Friction Value µ Test Time = 60 min Test Load = 200 N Frequency = 50 HZ Stroke = 100 µm	DIN 51834	50 °C / 122 °F	0,12
		80 °C / 176 °F	0,11
		100 °C / 212 °F	0,12
		120 °C / 248 °F	≥ 0,3
		140 °C / 284 °F	≥ 0,3
EMCOR	DIN 51802	—	0/0
Water Resistance	DIN 51807	—	1 - 90
Available Packaging		250 g 500 g 1 kg 5/25 kg	can– 12 per box cartridge - 20 per box can – 6 per box Pail