



PSV 715

HIGH PERFORMANCE SYNTHETIC LUBRICATION PASTE

smartGLEIT PSV 715 is a homogenous, light coloured lubrication paste, based on lithium-complex-soap, synthetic oil and a high content of triboreactive, microWHITE solid lubricants.

Product Features

smartGLEIT PSV 715 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
- Extended service temperature range:
 - 40°C to -130°C
- Plastic friendly base oil
- Universally applicable for
 - assembly,
 - running-in,
 - permanent lubrication and
 - as screw paste.
- Suitable as well for copper alloys (e.g. bronze, LHG-1013).
- Additional pretreatments like phosphating, gas nitriding etc. will enhance the performance level.
- Modern formulation – no hazard labels required.

Applications - Examples

- smartGLEIT PSV 715 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 (MoS₂, graphite)
- Note:
 - Before using the product in serial/practical applications, customer's tests to ensure that the product is meeting all requirements for the intended end use, have to be performed.

Instructions For Use

- smartGLEIT PSV 715 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 – smartGLEIT PSV 715

TEST/FEATURE	STANDARD/PARAMETER	UNIT	PSV 715
Colour		—	white/creme
Base Oil		—	synthetic oil
Viscosity @ 40 °C / 104 °F	DIN 51805	mm ² /s	100
Thickener		—	Li-complex-soap
Service Temperature		° C/°F	-40 to 130/ -40 to 266
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	8000
Almen Wieland		kN	> 18
Screw Test - Friction Value μ	M10x50-A4 / Ma = 40 Nm	—	0.1
SRV - P/K 100Cr6 Friction Value μ Test Time = 60 min Test Load = 200 N Frequency = 50 HZ Stroke = 80 μ m	DIN 51834	50 °C / 122 °F	0.11
		80 °C / 176 °F	0.1
		100 °C / 212 °F	0.09
		120 °C / 248 °F	0.09
		140 °C / 284 °F	\geq 0.3
EMCOR	DIN 51802	—	0/0
Water Resistance	DIN 51807	—	1 - 90
Available Packaging		250 g 500 g 1 kg 5/ 25 / 200 kg	can– 12 per box cartridge - 20 per box can – 6 per box Pail / Steel Drum