smartGLEIT®
FRICTION MEETS ENGINEERING

FSV 786

WHITE SPECIAL GREASE PASTE FOR HIGH AND LOW TEMPERATURES

smartGLEIT FSV 786 is a homogenous, light colored lubrication paste, based on calcium-sulfonate-complex-soap, synthetic oils and a high content of triboreactive, microWHITE solid lubricants.

Product Features

smartGLEIT FSV 786 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 wear resistant reaction layer. This layer significantly reduces friction and sliding wear of oscillating friction contacts under mixed or boundary friction conditions.
Special additives improve adhesion and corrosion protection.

- Novel, microWHITE solid lubricants:
  - Fast build-up of a stable, wear-resistant, tribochemical layer
  - Particularly high protection level against fretting corrosion – the new benchmark
  - Eliminates stick-slip
  - Extraordinary high load carrying capacity
- Extended range of the service temperature: **-40 to 170 °C (-40 to 340 °F)**
- Well suited for many material pairings – steel, stainless steel, bronze, brass, titanium, …
- When applied on aluminium, hard anodized surfaces, surfaces with PVD-, CVD-, DLC- or PCO-Layers, we recommend tests to evaluate best performance conditions.
- Due to a relative high level of solids content, the grease paste should only be used in very slow running rolling element bearings.
- The ingredients are not subject of hazard labelling according CLP- and GHS-regulations.

Applications - Examples

- smartGLEIT FSV 786 is used for initial lubrication of machine elements, which are exposed to high pressures, shock loads, vibrations or oscillations.
- 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:
  - Joint bearings (steel– steel/bronze), sliding guides (steel – steel/bronze/brass), adjusting wedges, sliding sleeves, …
  - Spindle drives, armatures,
  - Keyed connections (e.g. splined shafts, keyways), gear couplings
  - Ball joints, universal shafts, ball sockets,
  - Hinges and bolts
  - Annular springs
  - Small gears
  - Chucks and clamping elements (stable clamping force)
  - Overload protection systems e.g. in clutches
  - Threaded connections, especially stainless steel
  - Bearings of machine beds, bolster plates

Blütenstrasse 62 - 64 , 86558 Hohenwart /OT Koppenbach, Germany
Phone: +49 8443 91757 0, www.smartgleit.com, info@smartgleit.com

Instructions For Use

- smartGLEIT FSV 786 can be applied by means of grease guns, automatic dosing equipment (which is 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 lubricants of different thickener or oil base or check compatibility upfront.
- Before using the product in serial/practical applications, tests to ensure that the product is meeting all requirements for the intended use have to be conducted.

Typical Properties – smartGLEIT FSV 786

TEST/FEATURE	STANDARD/PARAMETER	UNIT	FSV 786
Colour		—	beige
Base Oil		—	synthetic oils
Viscosity @ 40 °C / 104 °F	DIN 51805	mm^2/s	375
Thickener		—	calcium-sulfonate-complex-soap
Service Temperature		° C/°F	-40 to 170 / -40 to 340
Solids Content		%	35
Density	DIN 51757	g/cm^3	1.1
NLGI Class	DIN 51818	—	2
Brugger - Value	DIN 51347	MPa	> 350
Evaporation Loss	150 °C/ 720 h	%	1.7
Screw Test - Friction Value µ	M10x50-A4 / Ma = 40 Nm	—	not tested yet
SRV – P/B 100Cr6 Friction Value µ Test Time = 60 min Frequency = 50 HZ Stroke s = [µm] Test Load F = [N] Temperature T = [°C]	DIN 51834	s / F / T 120/200/50 140/100/50 140/100/120 140/100/150	 0.14 0.14 0.12 0.11
EMCOR	DIN 51802	—	0/0
Water Resistance	DIN 51807	—	0 - 90
Available Packaging		250 g 500 g 1 kg 5/25/200 kg	Can– 12 per box Cartridge - 20 per box Dose – 6 per box Pail/Drum
Shelf Life – Closed Original Container		months	36