



PP 640

INERT HIGHTEMPERATURE GREASE

smartGLEIT PP 640 is a combination of a high quality, perfluorinated alkylpolyether base oil and a mixture of high temperature resistant smartWHITE solid lubricants – highest lubricity, temperature and chemical resistance are typical features.

Product Features

- Base oil and solid lubricants are extremely resistant to chemicals — chemically inert. smartGLEIT PP 640 can be used wherever conventional lubricants are dissolved, washed out or otherwise negatively altered in contact with present media.
- High temperature resistance - Operation temperatures up to +260 °C; short-term up to + 280°C.
- Utmost chemical resistance.
- Well suited for faster running machine elements
- Very good compatibility with elastomers and plastics.
- The combination of pressure resistant base oil and microWHITE solid lubricants is resulting in a very good lubrication performance.
- Very low evaporation rate even at elevated temperatures — superior to silicone, flourosilicone or polyurea greases (PP 640 is free from any silicones).
The low evaporation rate is especially advantageous for thin film lubrication.
- High ageing resistance – PP 640 is allowing long term operation and storage.
- PP 640 also can be used in vacuum conditions or under radiation.
- Risk Labels are not required for PP 640!

Product Application - Examples

smartGLEIT PP 640 is used for applications, where normal standard lubricants cannot fulfill the technical requirements. Also by regarding the economical situation, the use of smartGLEIT PP 640 can make sense – for longer operation times, lower maintenance costs or higher operation security.

- Faster running plain bearings, roller- and ball bearings in conveyor systems and conveyor chains in coating lines, textile industry, washing facilities, kiln cars and automatic baking ovens.
- Valve plugs, ball valves, spindles, seals and packings of armatures;
- Control elements in heaters (industry and home technology).
- Printer drives (with high temperatures, e.g. laser printer).
- Lubrication and damping of plastic mechanics.
- For precision mechanics and photo-technologies.
- For NVH applications in vehicles (when grease is allowed).
- Sliding contacts in the rubber industries (e.g. tire mouldings).
- And many more....

Application Advise

- smartGLEIT PP 640 can be applied with means of manual lever grease guns, automatic dosing equipment (suited for pasty products with solids content), pressure dispensing units, and also manually by spatula, lint-free rags, brushes or the like.
- Clean parts to be lubricated thoroughly — also corrossions protection oils or waxes have to be removed.
- Do not mix with greases of other base.
- For applications with roller bearings the filling quantity per bearing must be precisely determined and adhered to. When in doubt, please ask our technical service.
- When using in contact with oxygen, only use inorganic tools (e.g. metal spatula).

Typical Properties smartGLEIT PP 640

CHARACTERISITC	STANDARD / PARAMETER	UNIT	PP 640
Appearance		—	white/cream
Base Oil	—	—	PFPE
Solid Lubricant	—	—	microWHITE Solid Lubricants
Density	DIN 51757	g/cm ³	~ 1.9
Consistency NLGI-Class	DIN 51818	—	2
Penetration	DIN 51804; Bl. 1	mm/10	265 - 295
Flashpoint	ISO 2592	° C / °F	non-flammable
Drop-Point	DIN ISO 2176	° C / °F	none
Operation Temperature*	—	° C / °F	-25– +260/-13–500 (short term +280/536)
Friction Value μ – Screwtest		—	~0.1
Shelf Life	Closed original container	months	36
Safety Instructions	—	—	none*
Available Packaging	1 kg Can; 10 kg Pails, Special Packings		



*) At temperatures above 290 °C / 554 °F thermal decomposition will result in harmful vapors! Temperatures of 290 °C and higher have to be absolutely avoided!

Amendment – PP 640 and PP 640 for Automotive Applications

General Characteristics

- Well suited for temperatures up to 260 °C
- Low evaporation rate
- Media resistant
- High load carrying capacity (e.g. high weld load in Four Ball Machine)
- Ageing resistant
- Non-toxic
- Very good compatibility with plastics and elastomers, e.g.
 - Plastics: acetate, phenolic resin Terephthalate (PET), polycarbonates (PC), ABS, PPE, polysulfones, polyamides, polypropylene, polyethylene, ...
 - Elastomers: natural rubber; styrene-butadiene rubber (SBR); Butyl rubber (IIR); EPDM; nitrile rubber (NBR); neoprene (CR); poly-acrylate rubber (ACM); polyurethanes (PU); silicone rubber (P / M / V / FV-MQ); fluoroelastomers (FKM)

Applications

- Assembly aid for hose connections (e.g. intercooler hoses).
- To facilitate the assembly of O-rings and other elastomer parts - also for lifetime lubrication.
- Lubrication of valves and actuator elements within the intake or close to the engine.
- Bearings of fans – please use PP 640 only for slow running bearings (alternative: PP 640 for medium to fast running bearings).
- Mechanical elements with contact to fuels.
- NVH-Applications – due to very good compatibility with plastics, elastomers and leather and stick-slip free lubrication of even critical material-pairings.
 - For applications like ventilation flaps, mechanism of cup-holders, drawers etc. (lubrication and damping) – the user should not have direct contact with the grease (cleanliness).
- Guides and mechanics of sun-roofs, head-rests, etc..
- Generally for thin-film lubrication at elevated temperatures and high requirements for service life.
- Electrical switches and plugs (no contact lubrication) – due to low evaporation low risk of bridging.
- Lubrication of seals/gaskets/oil-seals/flat seals.
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