



## Geartop PFPE 250

High temperature inert synthetic gear oil based on PFPE base stock

### Description

Geartop PFPE is a non flammable, colourless and odourless PFPE oil. It is completely inert both physically and chemically and therefore Geartop PFPE is extremely suitable in situations where aggressive liquids or gasses are attacking the lubricant. Provides excellent lubrication under circumstances where both mineral and other type of synthetic lubricants will fail and is fully compatible with all widely used elastomers, seals, gaskets, plastics and metals.

### Applications

Geartop PFPE is suitable for the lubrication of bearings, chains and joints which are exposed to extremely high temperatures found in the manufacturing of glass, plastic film, paint, chemicals, nuclear applications, robotics and aeronautical industries. Typical applications are seen in ovens, drying and stabilizing units as well as polymerization tunnels .

### Benefits

- Resistant against extreme temperatures
- Inert against chemicals
- Will not oxidize

- Excellent compatibility
- Extremely good EP properties
- Long life

### Changing from other type of oils

When normal and even other synthetic gear oils are not providing the technical properties required Geartop PFPE might be the only solution left. This can happen in the following cases;

- Temperature restrictions
- Limited load carrying capabilities
- Chemical incompatibility

In order to change safely from another oil to Geartop PFPE a special procedure is required

- Empty the gearbox when the oil is hot, this will make the emptying of the gear box easier. Please make sure the oil is drained as much as possible.
- Clean with any type of effective solvent
- Finally rinse with a dry solvent (like acetone). Please be careful as acetone has a low flash point and might cause fire
- Be sure the acetone has evaporated before filling the gearbox with Geartop PFPE
- Charge with Geartop PFPE

All performance data on this Technical Data Sheet are indicative only and can vary during production

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## Typical performance data

	Test method	PFPE 250
Base oil type		Perfluopolyether
Colour	Visual	Colourless
Density @ 20 °C, kg/m <sup>3</sup>	ASTM D1298	1910
Viscosity @ 40°C, mm <sup>2</sup> /s	ASTM D445	250
Viscosity Index		134
Flash point, °C		None
Pour point, °C, max	ASTM D97	-25
Temperature range		-25 – 270
Volatility, 22 h @ 204 °C, % weight	ASTM D972	<5
Vapour pressure @ 38 °C (torr)	Knudsen	8x10 <sup>-8</sup>
4-ball wear test, 20 kg @ 107 °C <ul style="list-style-type: none"> <li>• Welding load, daN</li> </ul>	ASTM D4172	390
Behaviour under ionizing radiation		5x10 <sup>8</sup>
FZG, A/8.3/90	DIN 51354	n/a

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