

# TEXOL

## Chemical

### *Technical Data Sheet*

#### **Texol Texotherm™ FG Series**

High performance synthetic technology food machinery heat transfer fluid

#### **Product Description**

Texotherm™ FG Series are high performance synthetic heat transfer fluid formulated to operate over a wide temperature range, from -25°C up to +310°C, where it gives excellent oxidation stability and deposit-free operation.

Texotherm™ FG Series provides a long service life in closed heat transfer systems. Its low pour point provides energy-efficient start-up and good pumpability in sub-zero ambient temperatures, where pipes or expansion tanks may be sited outdoors.

#### **Customer benefits**

They were formulated to meet the stringent requirements for USDA-H1 lubricants and are designed for use in the food and beverage industry where incidental contact with food is possible.

- Odorless and colorless
- High temperature oxidation stability at +310°C ensures clean, deposit-free system performance
- Dissolves existing system deposits and goes on to maintain system cleanliness, improving uptime
- Extremely low pour point provides easy pumpability and energy-efficient low temperature start-up
- Long fluid service life reduces maintenance downtime and saves money

#### **Applications and Uses**

- Texotherm™ FG Series are recommended for heat transfer in closed systems operating in a wide range of applications, such as chemical, leather, textile, rubber, chipboard, food, building materials and fodder processing operations. It is also suitable for use in laundries.
- Texotherm™ FG Series have low toxicity and are suitable for use in heat transfer system of foods, feed and drink plants
- The film or skin temperature is the temperature of the oil film that is in direct contact with the internal wall of the heat exchanger tubes in the heater.
- Texotherm™ FG Series have USDA-H1 approval for use in equipment where is the possibility of incidental contact with food.
- Within its wide operating temperature range Texotherm™ FG Series can also be used in cooling applications for the removal of process heat.
- Optimum operating temperature range: -25°C to +310°C  
Maximum use temperature: +320°C  
Maximum film temperature: +310°C

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#### Typical Properties

Property (Unit)	FG 32	FG 46	FG 68	FG 100	Method
Density at +15 °C	0.874	0.885	0.886	0.889	ASTM D4052
Viscosity @40°C, cSt	32	46	68	100	ASTM D445
Viscosity @100°C, cSt	5.6	6.7	8.8	11.0	ASTM D445
Viscosity Index	101	101	103	104	ASTM D2270
Flash Point, °C	>220	>230	>235	>240	ASTM D92
Auto Ignition, °C	320	320	320	315	ASTM E659
Pour Point, °C	<-25	<-25	<-24	<-22	ASTM D97

#### Technical Expertise

Texol experts on Texol Texotherm™ FG series lubricants are regionally located to respond to your needs. Whether you have a question about products, applications or regulations, Texol offers comprehensive customer and technical service.