

# Regal® SGT 22

Industrial & Marine Gas Turbine Oil



## Product description

**Regal® SGT 22** is a premium performance, synthetic polyol ester based turbine lubricant for use in aeroderivative gas turbines in stationary and marine service.

## Customer benefits and product features

### Customer benefits

- **Excellent service life compared to mineral oils**  
Excellent oxidation and thermal stability of the synthetic polyol ester base fluid and additive system resists oil breakdown under severe, high temperature conditions. The low volatility of the synthetic polyol ester minimizes evaporative losses.
- **Minimum deposit formation**  
Reduced coking tendency of the synthetic polyol ester base fluid and additive system minimizes deposit formation on bearings and other areas exposed to the heat of the hot gases.
- **Good wide temperature range performance**  
Viscosity-temperature characteristics of the synthetic polyol ester provide outstanding low temperature fluidity to facilitate starting at low temperatures, while ensuring that an effective lubricant film is available under the most severe, high temperature conditions to protect critical components against wear.

### Product features

- Regal SGT 22 contains additives to protect against oxidation, corrosion and wear, providing excellent high temperature thermal and oxidation stability.

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### Applications

Regal SGT 22 is recommended for aeroderivative gas turbines exposed to severe operating environments in non-aviation applications such as industrial power generation, gas transmission and marine propulsion.

### Approvals, performance and recommendations

- Approved against U.S. Military Specification MIL-PRF-23699F STD

Holds formal approvals for use in the following gas turbines:

- Rolls-Royce RB 211
- Rolls-Royce Industrial Avon
- Rolls-Royce (Allison) Industrial 501-K
- GE Energy Industrial Aeroderivative units

*Not to be used in aircraft service*

*Not to be used in Solar Turbines requiring oils meeting Solar Specification ES 9-224 W – Class III OR MIL-PRF-23699F C/I specification.*

### Service considerations

Synthetic polyol ester lubricants slowly hydrolyze in the presence of water. High temperatures accelerate this process. Accordingly, Regal SGT 22 should be stored indoors.

Regal SGT 22 is compatible and miscible with all other MIL-PRF-23699F STD approved oils. For this reason, changeover to Regal SGT 22 can be achieved by topping off. However, by virtue of differences in seal swell characteristics between oils, the engine / accessory manufacturers' approval should be obtained for any proposed oil change. Mixing of different viscosity grades is not recommended.

Regal SGT 22 is not compatible with mineral oils and should not be mixed with phosphate ester hydraulic fluids since such mixtures can adversely affect seal compatibility and coking propensity.

Regal SGT 22 is expected to be compatible with metals normally used in aeroderivative gas turbines and accessory equipment, and the majority of modern paints. Advice should be sought from the equipment manufacturer to confirm the compatibility of polyol ester fluids with the metals and paints used in their equipment.

The following seal materials are compatible with Regal SGT 22: Viton®, nitrile and silicone rubbers, PTFE and nylon.

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## Typical test data

REGAL SGT 22		
Product Code		520008
Acid No., mg KOH/g	ASTM D664	0.16
Flash Point, COC, °C	ASTM D92	270
Pour Point, °C	ASTM D97	-57
Viscosity, Kinematic		
mm <sup>2</sup> /s @ -40°C	ASTM D445	9468
mm <sup>2</sup> /s @ 40°C	ASTM D445	25.6
mm <sup>2</sup> /s @ 100°C	ASTM D445	5.12

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ENVIRONMENT, HEALTH and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the [Product Information Center](#).

This Product Data Sheet (PDS) was produced for the Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center.

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