

## *Technical Data Sheet*

### **Texol Turbosyn™ PAO Series**

Advanced technology synthetic compressor lubricants

#### **Product Description**

Texol Turbosyn™ PAO lubricants are formulated with advanced polyalphaolefin synthetic technologies and latest generation additive systems designed to provide exceptional system performance and complete protection. Texol Turbosyn™ PAO delivers superior operational performance and protection in all types of compressor, including single and multistage reciprocating units and single or multistage centrifugal compressors where ISO 46 viscosity is required, and is particularly recommended for use rotary screw units.

Texol Turbosyn™ PAO 68 offers excellent turbocharger protection and long service performance in diesel marine turbocharger applications, and offers excellent extended drain performance. Both of these advanced performance lubricants meet and exceed manufacturer's performance specifications and are approved by major OEMs.

Texol Turbosyn™ PAO lubricants deliver exceptional wear performance under high temperature operating conditions and provide highly stable oxidation resistance and oil film performance designed to extend component service life, reducing scheduled oil drain downtime requirements and operating costs. The high performance thermal stability allows Texol Turbosyn™ PAO 46 to protect oil-injected rotary screw compressors with high discharge temperatures of +100°C at 15 bar, extending drain intervals to 8000 hours.

This highly reliable performance is also exhibited by Texol Turbosyn™ PAO 68, which will deliver drain intervals of up to 5000 hours where twin lubrication systems are in place in turbocharged marine diesel systems, and offer complete protection and performance in reciprocating compressors with discharge temperatures up to +200°C. With advanced additive system performance delivering a very low pour point of -55°C, Texol Turbosyn™ PAO offers excellent operational performance and protection in cold climates. These advanced additive systems also offer excellent air release characteristics, optimising wear protection in oil-flooded screw compressors, and promote seal swell, reducing leaks and optimising long term operational performance.

#### **Applications and Uses**

- Turbosyn™ PAO 46 is recommended for use in oil injected rotary screw compressors with high discharge temperatures of up to 100°C and pressure of up to 15 bar.
- Turbosyn™ PAO 68 is recommended for use in marine diesel turbochargers where two separate lubrication systems are in use.

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#### **Typical Properties**

Property (Unit)	PAO 32	PAO 46	PAO 68	PAO 100	Method
Density at +15 °C	0.840	0.842	0.846	0.855	ASTM D4052
Viscosity @40°C, cSt	32	46	68	100	ASTM D445
Viscosity @100°C, cSt	6.6	8.1	10.3	15.6	ASTM D445
Viscosity Index	130	136	141	149	ASTM D2270
Flash Point, °C	>240	>250	>250	>260	ASTM D92
Pour Point, °C	<-57	<-55	<-55	<-54	ASTM D97

#### **Technical Expertise**

Texol experts on Texol Turbosyn™ PAO 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.