



LPG Compressor Oil

Ultra high performance fully synthetic gas compressor oil

Product description

LPG Compressor Oil is a premium grade, ultra high performance polyalkylene glycol based gas compressor lubricant designed for use in hydrocarbon and chemical gas compressor units.

The advanced fully synthetic LPG Compressor Oil formulation offers reliable, long-term system protection through a combination of oxidation and corrosion inhibitor technologies.

Customer benefits

- Advanced fully synthetic polyalkylene glycol base and additive system combination offers reliable long-term system uptime
- Formulated to aid and maintain system protection and corrosion resistance in the presence of low-level water contamination
- Designed to promote rapid gas separation and foam suppression helping maintain consistent lubrication and protection
- Suitable for a wide range of hydrocarbon and chemical gas compression operations, reducing inventories and costs
- Reliable high temperature oxidation stability promotes long lubricant service life, helping reduce maintenance downtime
- Compatibility with a wide range of seal types helps reduce downtime and costs

Product highlights

- **Advanced fully synthetic formulation**
- **Reliable long-term system uptime**
- **System protection in the presence of water**
- **Rapid gas separation and foam suppression**
- **Suitable for a wide range of gas compression operations**
- **High temperature oxidation stability**

Selected specification standards include:

Howden Compressors

Linde

Sulzer Burckhardt

Winterthur

Applications

- LPG Compressor Oil is an ultra high performance synthetic gas compressor lubricant, designed for enclosed pattern gas compressors in hydrocarbon and chemical gas compression applications, where the crankcase and bearings operate in a gas-filled atmosphere. Under these conditions the gas is readily soluble in mineral oil lubricants which, on dilution, suffer a significant drop in viscosity and lubricant performance. This problem can be overcome by using LPG Compressor Oil in which the gases are much less soluble. It is particularly suitable for marine service on vessels carrying specialist liquefied gas cargoes
- LPG Compressor Oil is used for the following gases:
 - liquefied petroleum gases such as propane and butane
 - liquefied natural gases such as methane and ethane
 - hydrocarbon chemical gases such as ethylene, propylene and butylene
 - chemical gases such as vinyl chloride, ammonia, butadiene
- LPG Compressor Oil demonstrates some water and sulphide tolerance in pipeline compressor applications. The oil tolerates up to 4% water before hazing at +80°C, and has been evaluated for corrosion resistance with 2.5% water
- LPG Compressor Oil will not affect common seal and gasket materials such as Nitrile Rubber (NBR) and fluorosilicones
- LPG Compressor Oil softens ordinary industrial paints. Two pack epoxy formulations are normally resistant to this
- LPG compressor oil should not be mixed with mineral oils.

Approvals, performance and recommendations

Approvals

- LPG Compressor Oil is approved by Sulzer Burckhardt A.G., Winterthur for use in their K-type gas cargo compressors for general LPG/LNG service and for ammonia, vinyl chloride, and butadiene.
- LPG compressor oil is approved by Howden Compressors Ltd. for use in refrigeration compressors operating with propane and propylene at discharge pressure exceeding 7 kg/cm.

Performance

- LPG Compressor Oil meets the performance requirements of Linde for general service gas compression including ammonia, vinyl chloride and butadiene.

LPG Compressor Oil – Continued

Typical test data		
Test	Test methods	Results
Product Code		44083
Visc, Kinematic, 40°C, mm ² /s	ISO 3104	185
Visc, Kinematic, 100°C, mm ² /s	ISO 3104	35
Viscosity Index	ISO 2909	238
Flash Point, C.O.C., °C	ASTM D92	260
Pour Point, °C	ISO 3016	-30
Density, 15°C, Kg/l	ASTM D1298	1.057
Foam Seq. I, IAB ml, with air	ASTM D892	45
Foam Seq. I, AFT 10 ST ml, with air	ASTM D892	10
Foam Seq. II, IAB ml, with air	ASTM D892	140
Foam Seq. II, AFT 10 ST ml, with air	ASTM D892	20
Foam Seq. I, IAB ml, with propane	ASTM D892	35
Foam Seq. I, AFT 10 ST ml, with propane	ASTM D892	10
Foam Seq. II, IAB ml, with propane	ASTM D892	70
Foam Seq. II, AFT 10 ST ml, with propane	ASTM D892	20
Steel and Aluminium Corrosion	DIN 51355 Test A	0
Vapour pressure at 100°C, mm Hg	-	1.10-5
Specific. Heat at 50°C, kJ/kg K	-	1.92
Specific. Heat at 100°C, kJ/kg K	-	2.10
Specific. Heat at 150°C, kJ/kg K	-	2.25

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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