



## TECHNICAL DATA

### **BIOTOPE-AIR™** **Synthetic Fluid for Compressor**

#### **Description**

Biotope-Air is a bio-based fully synthetic compressor fluid specially designed for sensitive applications. Biotope-Air offers a new approach to synthetic lubricants and high performance in air compressors. A large variety of compressors is available, but the most severe operation is observed with rotary compressors (screw and sliding vane) and reciprocating compressors (water cooled and air cooled). The high temperatures of operation (250°F to 500°F) require drain intervals mineral oil to be in the region of 500 to 1000 hours. Use of Biotope-Air increase drain intervals up to 8000 hours for rotary compressors, and provides long-life discharge valve in reciprocating compressors.

In rotary applications, Biotope-Air provides superior thermal and oxidative stability over a wide range of temperatures as well as improved water tolerance and protection against corrosion. It is particularly effective in rotary compressors having oil-injection cooling with high final compression temperatures, or in compressors that tend to form varnish and other system deposits. The excellent hydrolytic stability of Biotope-Air is especially important in humid environments.

In reciprocating compressor applications, Biotope-Air is used where there are high discharge temperatures. Biotope-Air has low volatility and low carbon-forming tendencies, which result in clean compressor operating conditions. Another benefit of Biotope-Air is its compatibility with elastomers and paints found in older machine that were designed for use with mineral oil.

#### **Features and Benefits**

- Biobased Formula
- Superior Oxidation Resistance - Longer Oil Life (8000 hours & up)
- Excellent Thermal Stability - No varnish deposits, longer oil life
- High Viscosity Index - better lubrication at low & high temperatures
- Low Vapor Pressure - less oil carryover & less oil consumption
- Higher Flash Point & Autoignition Temp - increased operating safety

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The above information is true and precise to the best of our knowledge. All recommendations or suggestions are made without warranty since the circumstances and conditions are beyond our control.

For further information contact : **Lubri-Lab Inc.:** [info@lubrilab.com](mailto:info@lubrilab.com)

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Perform**ACE** 2001 Award Recipient



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### BIOTOPE-AIR™

#### Synthetic Fluid for Compressor

#### Applications

Biotope-Air is recommended for use in both rotary and reciprocating compressors. ISO VG 32, 46 and 68 are the recommended viscosity grades for rotary compressors, with ISO VG 100 and 150 recommended for reciprocating compressors.

Consult your OEM for the appropriate grade.

#### Specification

Properties	ISO VG 32	ISO VG 46	ISO VG 68	ISO VG 100	ISO VG 150
Kinematic Viscosity @ 100°C, cSt	5.9	7.9	11.1	15.0	21.0
Kinematic Viscosity @ 40°C, cSt	30.5	44.1	67.3	99.0	151.2
Viscosity Indexes	140	153	158	159	163
Specific Gravity 15.6/15.6 °C	0.833	0.841	0.844	0.847	0.850
Flash Point, °C (°F) Open Cup	236 (457)	241 (466)	243 (469)	253 (487)	253 (487)
Fire Point, °C (°F)	269 (516)	273 (523)	277 (531)	277 (523)	281 (538)
Pour Point, °C (°F)	-58 (-72)	-56 (-69)	-54 (-65)	-51 (-60)	-48 (-54)

**Availability :** 20 litres, 55 litres, 205 litres.

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