

FOODMAX BIO AIR 46

Product code: 263301401

Synthetic Biodegradable Compressor and Vacuum Pump Lubricant – Food Grade

This product is a combination of high-grade synthetic base fluids and specially engineered additive systems. It is used successfully in equipment requiring this ISO viscosity grade which operate under severe conditions and where a food grade and/or environmentally friendly lubricant is required. It is also designed for use in the food and beverage industries where incidental contact from lubricants may occur.

Benefits & Advantages

- Low toxicity
- Readily biodegradable (OECD 301B) and virtually non-toxic. These products are an excellent choice where leakage or spillage could enter environmentally sensitive areas.
- Food grade. complies with FDA 21 CFR Title 21, 178.3570 H-1.
- Good rust and corrosion protection.
- Superb low-temperature capabilities and high viscosity index allow a wide operating temperature range.
- Increased resistance to varnish, carbon and acid formation, providing better protection and longer service life, especially during extreme and/or hot operating conditions.
- Excellent film strength resulting in exceptional equipment performance that not only results in fewer breakdowns but helps improve production capacity.
- Separates readily from water.
- Reduced energy consumption.
- High flash & auto ignition points
- Low pour point.
- Very low volatility, lower evaporation loss for good vacuum performance.
- Reduced maintenance with very long drain intervals.
- Excellent foam control, reducing heat, oxidation and wear. High contact regions are protected against wear for increased vacuum pump and compressor life and efficiency.
- For vacuum applications down to 10⁻¹ mbar

Specifications

These lubricants correspond to the specifications of most compressor and vacuum pump manufacturers worldwide.

They meet OECD 301 B, NSF H-1,
FDA 21 CFR 178.3570 H-1

Materials Compatibility

These lubricants are fully miscible with mineral oil-based oils and with PAG's. Usually, flushing is not necessary when converting to this product. However, biodegradability will be reduced if two product types are mixed. Therefore residual quantities of old lubricants should be kept at a minimum. Furthermore, paint finishes should be on 2-part epoxy system. Metals such as zinc and tin should be avoided wherever possible. The cleaning effect of these fluids can dislodge large amounts of dirt, which can shorten filter life during changing period. Water content during use should be < 0.1%. Any collected water should be drained.

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Typical Performance Data

Typical	Test Method	Value
ISO Viscosity Grade	ASTM D-2422	46
Viscosity @ 100 °C, mm ² /s	ASTM D-445	7.9
Viscosity @ 40 °C, mm ² /s	ASTM D-445	46
Viscosity Index	ASTM D-2270	140
Pourpoint, °C	ASTM D-97	-39
Flashpoint C.O.C, °C	ASTM D-92	260
Density @ 15 °C, (kg/l)	ASTM D-1298	0.97
Halal approval		yes
Kosher approval		yes
NSF approval		pending

All performance data on this Technical Data Sheet are indicative only and can vary during production.

