



Gastop DI 46

Synthetic di-ester based compressor fluids for gas compressor applications

Description

Gastop DI is a combination of high grade synthetic ester base fluids and special engineered additive systems. They are used successfully for the long term lubrication of screw, rotary vane or reciprocating (piston type) compressors.

Application

Gastop DI can be used successfully for compressing the following gases: Air, Butadiene, Carbon Dioxide (dry), Carbon Monoxide, Ethylene, Furnace (crack) Gas, Helium, Hydrogen, Hydrogen Sulphide (dry), Natural Gas, Methane, Nitrogen, Propane, Synthesis Gas, Sulphur Hexafluoride etc.
The nominal operating range is -15°C to 230°C . Gastop DI synthetic gas compressor lubricants offer high performance protection of compressors in extreme conditions: high load and temperatures, compressing reactive and dirty gases, intermittent operation, in warm or cold climates and in mobile applications.

Benefits

Gastop DI have a multitude of advantages over mineral and other synthetic oils:

- Reduced compressor maintenance with very long drain intervals. Up to 8 times the service life of mineral oils.
- Low friction properties and resistance to viscosity increase from oxidation. This helps to improve operating efficiency and saves money on electrical energy consumption.

- Excellent foam control, reducing heat, oxidation and wear. High contact regions are protected against wear for increased compressor life and efficiency.
- Enhanced water separation. Water from condensation can cause unwanted oil/water emulsions, environmental discharge hazards and rust. Gastop DI resists acid formation, readily separates from water and is anti-rust fortified. Water can be easily drained off for simplified environmental discharge and increased oil life.
- Increased resistance to varnish, carbon and acid formation. Providing better protection and longer service life than petroleum oils, especially during hot operating conditions.
- Low volatility, resulting in lower evaporation losses and fewer problems with the oil getting into air tools, instruments or even the production process. It also means there is less oil to remove in the air/oil separators and fewer air filter changes.
- Fire and explosion possibilities are greatly reduced due to the low carbon forming tendencies and due to the relatively high flash, fire and auto ignition points. Operating temperature reduction. Gastop DI cools and removes heat more efficiently. These benefits mean for the user of Gastop DI synthetic compressor lubricants: higher reliability and lower operational costs. The reliability is also supported by our own oil analysis program.

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

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Typical performance data

Property	Test Method	DI 46
ISO Viscosity Grade	ASTM D-2270	46
Viscosity @ 40°C, cSt	ASTM D-445	6.2
Viscosity @ 100°C, cSt	ASTM D-445	46
Viscosity Index	ASTM D-2270	73
Pourpoint, °C	ASTM D-97	-54
Flashpoint C.O.C., °C	ASTM D-92	250
Demulsibility	ASTM D-1401	excellent
Evaporation, %	ASTM D-972	<1
Copper Corrosion	ASTM D-130	1a
Density @ 15 °C, kg/l	ASTM D-1208	0.95

Materials Compatibility

Caution: May effect some paint finishes, plastics and seals. Gastop DI ester based synthetic compressor lubricants are compatible with seals made from fluorinated hydrocarbon, fluorsilicone, polysulfide, Viton, Teflon, and high nitrile NBR (>36 % acrylonitrile) materials. Materials not recommended include low nitrile NBR (<36 % acrylonitrile), natural and butyl rubber, PVC, Neoprene, polyacrylate, SBR, chlorosulfonated polyethylene. When unsure of the elastomer, plastics and paint compatibility, Matrix should be consulted.

