



TECHNICAL DATA SHEET

AIMOL Airtech DI

Synthetic compressor fluid based on a di-ester

DESCRIPTION

AIMOL Airtech DI series are di-ester based, oxidation resistant lubricant designed to provide high temperature and long-term lubrication with minimal deposits formation. AIMOL Airtech DI is formulated according to the latest technology and are a combination of high grade synthetic base fluids and specially engineered additive systems. They are used successfully for the long term lubrication of screw, rotary vane and piston type compressors. Airtech DI offers 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

- ◆ Reduced compressor maintenance with very long drain intervals. Up to 8 times the service life of mineral oils
- ◆ Reduced maintenance costs
- ◆ Low friction properties and resistance to viscosity increase from oxidation. This helps improve operating efficiency and saves money on electrical energy consumption
- ◆ Enhanced water separation
- ◆ Resists from acid formation and rust
- ◆ Eliminates lacquering and varnish, carbon and acid residues
- ◆ Low volatility
- ◆ Oxidation and chemical resistant
- ◆ Excellent cold temperature starting and pumpability
- ◆ Greatly reduces fire and explosion hazard thank to low carbon forming tendency
- ◆ Operating temperature reduction, AIMOL Airtech DI cools and removes heat efficiently

APPLICATIONS

- ◆ Oil flooded rotary screw compressors
- ◆ Oil flooded rotary vane compressors
- ◆ AIMOL Airtech DI fluids might also be considered for other applications requiring an oxidation resistant lubricant
- ◆ Also recommended for process gas compressors and vacuum pumps

MATERIAL COMPATIBILITY

| Recommended | Not recommended |
|---------------------|--------------------|
| Viton | Neoprene |
| High nitrile buna N | SBR |
| PTFE | Low nitrile buna N |
| Epoxy paint | Acrylic paint |
| Oil resistant alkyd | Lacquer |
| Nylon | Polystrene |
| Delrin, celcon | PVC |
| PBT | ABS |

GAS COMPATIBILITY

| | | | |
|---------------------|----------------------|-------------------------|----------------------|
| Air | Carbon dioxide (dry) | Hydrogen sulphide (dry) | Propane |
| Butadiene | Ethylene | Natural gas | Synthesis gas |
| Carbon monoxide | Helium | Methane | Sulphur hexafluoride |
| Furnace (crack) gas | Hydrogen | Nitrogen | |
| NOx | O ₂ | O ₃ | Halogen compounds |



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TYPICAL FIGURES

| | DI 46 | DI 68 | DI 100 | DI 150 | DI 220 |
|---|------------|--------------------|--------------------|-------------|-------------|
| Density @ 15 °C, kg/l | 0,91 | 0,95 | 0,96 | 0,95 | 0,95 |
| Viscosity Index | 73 | 70 | 87 | 70 | 73 |
| Viscosity @ 40°C, cSt | 46 | 66 | 96 | 150 | 220 |
| Viscosity @ 100°C, cSt | 6,2 | 7,6 | 10,3 | 12,9 | 16,5 |
| Flash point, °C | 250 | 250 | 250 | 255 | 255 |
| Pour point, °C | -55 | -37 | -32 | -34 | -34 |
| Auto ignition point, °C | 406 | 406 | 411 | 426 | 426 |
| 4 ball wear test @ 75 °C, 40 kg, 1 hr, mm | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 |
| Copper strip corrosion, 24 hrs @ 100 °C | 1a | 1a | 1a | 1a | 1a |
| Vapour pressure @ 25 °C, torr | n/a | 1x10 ⁻⁵ | 1x10 ⁻⁶ | n/a | n/a |
| Evaporation 22h @ 99 °C (%) | <1 | <1 | <1 | <1 | <1 |
| Demulsibility @ 54 °C, ml, min | 40/39/1(5) | 40/38/2(15) | 39/39/1(60) | 39/39/2(60) | 38/39/3(60) |

TECHNICAL DATA INFO LINE

Should you require additional information or advice on AIMOL products, please contact us as per the details below.

HEALTH AND SAFETY

AIMOL Airtech DI has no adverse health effects provided it is used as directed.

Typical figures as indicated may vary per production cycle and can change at manufacturers' option. Specifications, however, are guaranteed. Because of continuous product research and development, the information within this data sheet is subject to change without any notification. Although every effort is made to ensure accurate information, A.I.M. bv accepts no liability for any loss or damage suffered caused by the incorrectness and/or incompleteness of this text, and as a result of using this product for any application other than explicitly stated in this data sheet.