TECHNICAL DATA SHEET

AIMOL Vacutech DI 105

Synthetic diester based vacuum pump fluid

DESCRIPTION

AIMOL Vacutech DI 105 pump lubricant is made from premium, synthetic diester base stocks combined with an advanced technology additive system. This fluid is proven in countless compressor types and in the appropriate viscosity, is suitable for both rotary screw, reciprocating and vacuum applications. AIMOL Vacutech DI 105 gives outstanding service, even in the most severe operating conditions. It offers high performance protection in extreme conditions: high load and temperatures, pumping reactive and dirty gases, intermittent operation, in warm or cold climates and in mobile application. The fluid's nominal operating range is -15 up to 230°C.

BENEFITS

- Low friction properties and outstanding oxidation stability. This helps improve operating efficiency and saves money on electrical energy consumption
- High viscosity index
- High flash & auto ignition points
- Very low volatility, lower evaporation loss and greater vacuums
- Reduced vacuum pump maintenance with very long drain intervals
- Extremely high film strength
- Excellent foam control, reducing heat, oxidation and wear. High contact regions are protected against wear for increased vacuum pump life and efficiency
- Enhanced water separation for increased oil life
- Excellent rust control
- Increased resistance to varnish, carbon and acid formation. Providing better protection and longer service life, especially during hot operations

DESCRIPTION

AIMOL Vacutech DI 105 outperforms ISO/SP 6521 (DAB DAG) and DIN 51506 (VDL).

GAS TYPE SUITABILITY

AIMOL Vacutech DI 105 is suitable for successfully pumping the following gas types:

Air	Carbon 2-oxide (dry)	Hydrogen Sulphide (dry)	Propane
Butadiene	Ethylene	Natural gas	Synthesis gas
Carbon monoxide	Helium	Methane	Sulphur Hexafloride
Furnace gas	Hydrogen	Nitrogen	
NOx	O_2	O_3	Halogen compounds

TYPICAL FIGURES

Parameter	Test method	Vacutech DI 105
Density @ 15 °C, kg/l	ASTM D4052	0,96
Viscosity Index	ASTM D2270	70
Viscosity @ 40 °C, cSt	ASTM D445	98
Viscosity @ 100 °C, cSt	ASTM D445	9,6
Flash point, COC °C	ASTM D92	250
Pour point, °C	ASTM D97	-34
Auto ingition point, °C	ASTM E659	411
Copper strip corrosion, 24 hrs @ 100 °C	ASTM D130	1a
Vapor pressure, torr • @ 20 °C • @ 100 °C • @ 200 °C	Knudsen	 $9*10^{-5}$ $2*10^{-3}$ $1*10^{-3}$
Evaporation 22 hrs, @ 99 °C, wt % g/10g	ASTM D972	<1
Demulsibility @ 54 °C, ml oil/water/emulsion	ASTM D2711	39/39/1 (60)

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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 Vacutech DI 105 has no adverse health effects provided it is used as directed.

DISCLAIMER

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.