



## Vacutop

### Synthetic di-ester based vacuum pump fluids

#### Description

Vacutop pump lubricants are made from premium, synthetic di-ester base stocks combined with an advanced technology additive system. These fluids are proven in countless compressor types and in the appropriate viscosity, are suitable for both rotary screw, reciprocating and vacuum applications. Vacutop lubricants give outstanding service, even in the most severe operating conditions. Vacutop series 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. Vacutop 105 B is suited for automotive assembly with modified additive package.

- 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

#### Benefits

- Low friction properties and outstanding oxidation stability. This helps improve operating efficiency and saves money on electrical energy consumption

#### Specifications

Vacutop outperforms ISO/SP 6521 (DAB DAG) and DIN 51506 (VDL)

#### Gas type suitability

Vacutop 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 Hexafluoride
Furnace gas	Hydrogen	Nitrogen	
NOx	O2	O3	Halogen compounds

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

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## Typical performance data

	Test method	105	105 B
Density @ 15 °C, kg/l	ASTM D4052	0,96	0,96
Viscosity Index	ASTM D2270	70	70
Viscosity @ 40 °C, cSt	ASTM D445	98	98
Viscosity @ 100 °C, cSt	ASTM D445	9.6	9.6
Flash point, COC °C	ASTM D92	250	250
Pour point, °C	ASTM D97	-34	-34
Auto ignition point, °C	ASTM E659	>400	>400
Copper strip corrosion, 24 hrs @ 100 °C	ASTM D130	1a	1a
Vapor pressure	Knudsen		
• @ 20 °C (Torr.)		9x10 <sup>-5</sup>	9x10 <sup>-5</sup>
• @ 100 °C (Torr.)		2x10 <sup>-3</sup>	2x10 <sup>-3</sup>
• @ 200 °C (Torr.)		1x10 <sup>-3</sup>	1x10 <sup>-3</sup>
Evaporation 22 hrs, @ 99 °C, wt % g/10g	ASTM D972	<1	<1
Demulsibility @ 54 °C, ml oil/water/emulsion	ASTM D2711	39/39/1 (60)	40/38/2 (15)

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