

VACUUM-PLUS DI-EST 100

VACUUM PUMP OILS

321701801



SYNTHETIC DI-ESTER BASED VACUUM PUMP LUBRICANTS

These products are a unique blend of high-grade synthetic ester base fluids and specially engineered additive systems, designed for the long-term lubrication of all types of mechanical vacuum pumps, including screw, rotary vane, reciprocating (piston type), roots (lobe), claw, and others. These fluids can be used successfully with various gases such as air, butadiene, carbon dioxide (dry), carbon monoxide, ethylene, furnace (crack) gas, helium, hydrogen, hydrogen sulphide (dry), natural gas, methane, nitrogen, propane, oxygen, synthesis gas, sulfur hexafluoride, and more. With a nominal operating range of -15°C to 230°C, these fluids provide high performance protection for vacuum pumps operating under extreme conditions, including high loads and temperatures, compression of reactive and dirty gases, intermittent operation, and in warm or cold climates, as well as in mobile applications

PROPERTY	METHOD	VALUE
ISO Viscosity Grade		100
Viscosity index	ASTM D2270	72
Viscosity @ 40 °C, mm ² /s	ASTM D445	95
Viscosity @ 100 °C, mm ² /s	ASTM D445	9.6
Flash point C.O.C., °C	ASTM D92	260
Pour point, °C	ASTM D97	-33
Copper corrosion 24h @ 100 °C	ASTM D130	1a
Demulsibility @ 54 °C, ml oil/water/emulsion (min)	ASTM D2711	39/39/1 (60)
Density @ 15 °C, kg/dm ³	ASTM D4052	0.95

CATEGORY

- Compressor- and Vacuum pump Fluids

BENEFITS

- These products have a multitude of advantages over mineral oils 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 equipment life and efficiency
- Enhanced water separation. Water from condensation can cause unwanted oil/water emulsions, environmental discharge hazards and rust. It 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. It cools and removes heat more efficiently. These benefits mean for the user of the product: higher reliability and lower operational costs. The reliability is also supported by our own oil analysis program.

All data on this technical data sheet is indicative only

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