Optimize the performance of your vacuum pump with our wide selection of custom vacuum pump oils. With a low vapor pressure and minimal additives, our oils reduce the sludging that occurs with lower quality oils. Molecular distillation of premium base stocks produce fluids that are world-renowned for their quality, performance and reliability.

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| **19 GRADE** | **Designed for direct drive rotary vane pumps, LVO19 improves pumping cycles, lowers maintenance costs, cools pumps, and extends fluid life. Low vapor pressure reduces system backstreaming and thermal stability provides resistance to oxidation and sludge formation.** | • Direct drive rotary vane pumps  
• Optical and decorative coatings  
• Leak detection  
• Freeze drying  
• Mass spectrometry  
• Sputtering  
• General laboratory applications. | 1 Qt. | LVO191QT  |
|            | **Vapor Pressure** < 1 x 10^{-5} Torr  
**Viscosity @ 100 °F** 47.7 cSt / 220.8 SUS  
**Viscosity @ 200 °F** 6.4 cSt / 47.2 SUS  
**Flash Point (COC)** 232°C / 450°F  
**Pour Point** -15.3°C / +4.5°F  
**Specific Gravity** 0.869 | | 1 Gal. | LVO191G   |
|            |                                                                                   |                                                                            | 5 Gal. | LVO1915G  |
|            |                                                                                   |                                                                            | 55 Gal.| LVO1955G  |
| **195 GRADE** | **Higher viscosity gives superior performance in belt drive rotary vane and piston pumps. The highly versatile LVO195 offers excellent vapor pressure, thermal stability, and superior resistance to oxidation and sludge formation in both rotary vane and piston pumps.** | • Mech. vac. pumps under 300 cfm  
• Belt drive rotary vane pumps  
• Optical and decorative coatings  
• Leak detection  
• Freeze drying  
• Sputtering, heat treating  
• Vacuum furnaces  
• E-beam welding and melting | 1 Qt. | LVO195X1QT |
|            | **Vapor Pressure** < 1 x 10^{-5} Torr  
**Viscosity @ 100 °F** 83 cSt / 386 SUS  
**Viscosity @ 200 °F** 9.2 cSt / 56 SUS  
**Flash Point (COC)** 235°C / 455°F  
**Pour Point** -14°C / +7°F | | 1 Gal. | LVO195X1G |
|            | **Specific Gravity** 0.89 | | 5 Gal. | LVO195X5G |
|            |                                                                                   |                                                                            | 55 Gal.| LVO195X55G|
| **20 GRADE** | **For rotary vane pumps and high vacuum blowers, LVO20 offers excellent vapor pressure, low volatility, extended fluid life, reduced backstreaming, and high corrosion resistance. LVO20 eliminates cross contamination when used in mechanical and diffusion pumps.** | • Diffusion pumps  
• Direct drive rotary vane pumps  
• Optical and decorative coatings  
• Leak detection  
• Freeze drying  
• Mass spectrometry  
• Sputtering  
• General laboratory applications | 1 Qt. | LVO201QT |
|            | **Vapor Pressure** < 1 x 10^{-5} Torr  
**Viscosity @ 100 °F** 53.9 cSt / 249 SUS  
**Viscosity @ 200 °F** 7.0 cSt / 49 SUS  
**Flash Point (COC)** 232°C / 450°F  
**Pour Point** -15.5°C / +4°F  
**Specific Gravity** 0.89 | | 1 Gal. | LVO201G  |
|            |                                                                                   |                                                                            | 5 Gal. | LVO205G  |
|            |                                                                                   |                                                                            | 55 Gal.| LVO2055G |
| **130 GRADE** | **Ideal for operating at elevated temperatures the LVO130 pump oil is engineered for use in rotary piston pumps from 150 cfm to 300 cfm with operating temperatures up to 160 °F.** | • Large mechanical vacuum pumps and blowers  
• Rotary piston pumps from 150 cfm to 300 cfm with operating temperatures up to 160 °F | 5 Gal. | LVO1305G |
|            | **Vapor Pressure** < 1 x 10^{-3} Torr  
**Viscosity @ 100 °F** 95 cSt  
**Viscosity @ 200 °F** 10.1 cSt  
**Flash Point (COC)** 518°C / 270°F  
**Pour Point** -12 °C / +10.4 °F  
**Specific Gravity** 0.88 | | 55 Gal.| LVO13055G |
| **ELITE Z GRADE** | **Double distilled to exhibit the highest performance for mechanical pumps, EZ Grade is very resistant to thermal and chemical attack and provides longer oil life and superior protection to the vacuum pump.** | • Mechanical pumps operating in severe applications, including higher temperatures and those subject to water or chemical attack  
• Optical and decorative coatings  
• Leak detection  
• Freeze drying  
• Mass spectrometry  
• Sputtering | 1 Qt. | LVOEZ1Q |
|            | **Vapor Pressure** < 1 x 10^{-7} Torr  
**Viscosity @ 100 °F** 64 cSt / 298 SUS  
**Viscosity @ 200 °F** 10 cSt / 59 SUS  
**Flash Point (COC)** 268°C / 515°F  
**Pour Point** -54°C / +65°F  
**Specific Gravity** 0.84 | | 1 Gal. | LVOEZ1G |
|            |                                                                                   |                                                                            | 5 Gal. | LVOEZ5G |
|            |                                                                                   |                                                                            | 55 Gal.| LVOEZ55G |
| **FF GRADE** | **Designed to assist in the internal cleaning of particles and sludge build-up in mechanical vacuum pumps. Its low viscosity helps free contamination from internal parts, allowing it to be flushed from the pump through the drain valve.** | • Flushing fluid for all types of mechanical pumps using hydrocarbon fluids. | 1 Gal. | LVOFF1G |
|            | **Vapor Pressure** < 1 x 10^{-4} Torr  
**Viscosity @ 100 °F** 25.3 cSt / 120.3 SUS  
**Viscosity @ 200 °F** 4.4 cSt / 40 SUSo  
**Flash Point (COC)** 180°C / 356°F  
**Pour Point** -12°C / +11°F  
**Specific Gravity** 0.86 | | 5 Gal. | LVOFF5G |
|            |                                                                                   |                                                                            | 55 Gal.| LVOFF55G |

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