







LACO TECHNOLOGIES

LACO VACUUM PUMP OIL

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-renown for their quality, performance and reliability.

GRADE		SPECIFICATIONS	APPLICATIONS	SIZE	PART #
 <p>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.</p>	Vapor Pressure	< 1 x 10 ⁻⁵ Torr	<ul style="list-style-type: none"> • Direct drive rotary vane pumps • Optical and decorative coatings • Leak detection • Freeze drying • Mass spectrometry • Sputtering • General laboratory applications. 	1 Qt.	LVO191QT
	Viscosity @ 100 °F	47.7 cSt / 220.8 SUS		1 Gal.	LVO191G
	Viscosity @ 200 °F	6.4 cSt / 47.2 SUS		5 Gal.	LVO1915G
	Flash Point (COC)	232°C / 450°F		55 Gal.	LVO1955G
	Pour Point	-15.3°C / +4.5°F			
	Specific Gravity	0.869			
 <p>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.</p>	Vapor Pressure	< 1 x 10 ⁻⁵ Torr	<ul style="list-style-type: none"> • 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
	Viscosity @ 100 °F	83 cSt / 386 SUS		1 Gal.	LVO195X1G
	Viscosity @ 200 °F	9.2 cSt / 56 SUS		5 Gal.	LVO195X5G
	Flash Point (COC)	235°C / 455°F		55 Gal.	LVO195X55G
	Pour Point	-14°C / +7°F			
	Specific Gravity	0.89			
 <p>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.</p>	Vapor Pressure	< 1 x 10 ⁻⁶ Torr	<ul style="list-style-type: none"> • Diffusion pumps • Direct drive rotary vane pumps • Optical and decorative coatings • Leak detection • Freeze drying • Mass spectrometry • Sputtering • General laboratory applications 	1 Qt.	LVO201QT
	Viscosity @ 100 °F	53.9 cSt / 249 SUS		1 Gal.	LVO201G
	Viscosity @ 200 °F	7.0 cSt / 49 SUS		5 Gal.	LVO205G
	Flash Point (COC)	232°C / 450°F		55 Gal.	LVO2055G
	Pour Point	-15.5°C / +4°F			
	Specific Gravity	0.869			
 <p>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.</p>	Vapor Pressure	< 1 x 10 ⁻³ Torr	<ul style="list-style-type: none"> • 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
	Viscosity @ 100 °F	95 cSt		55 Gal.	LVO13055G
	Viscosity @ 200 °F	10.1 cSt			
	Flash Point (COC)	518°C / 270°F			
	Pour Point	-12 °C / +10.4 °F			
	Specific Gravity	0.88			
 <p>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.</p>	Vapor Pressure	< 1 x 10 ⁻⁷ Torr	<ul style="list-style-type: none"> • 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
	Viscosity @ 100 °F	64 cSt / 298 SUS		1 Gal.	LVOEZ1G
	Viscosity @ 200 °F	10 cSt / 59 SUS		5 Gal.	LVOEZ5G
	Flash Point (COC)	268°C / 515°F		55 Gal.	LVOEZ55G
	Pour Point	-54°C / +65°F			
	Specific Gravity	0.84			
 <p>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.</p>	Vapor Pressure	< 1 x 10 ⁻⁴ Torr	<ul style="list-style-type: none"> • Flushing fluid for all types of mechanical pumps using hydrocarbon fluids. 	1 Gal.	LVOFF1G
	Viscosity @ 100 °F	25.3 cSt / 120.3 SUS		5 Gal.	LVOFF5G
	Viscosity @ 200 °F	4.4 cSt / 40 SUSo		55 Gal.	LVOFF55G
	Flash Point (COC)	180°C / 356°F			
	Pour Point	-12°C / +11°F			
	Specific Gravity	0.86			