

 **Leybold**

leybonol[®]
leybonol

LVO 521

High purity for
best performance



Specially Designed Oil For Diffusion Pumps

LEYBONOL LVO 521 is our new high-purity, high-quality silicone solution, and is the perfect replacement for the discontinued but widely-used Dow Corning (DC-704 and 705) oils. Our premium oil ensures the best performance for diffusion pumps in high and ultra-high vacuum applications.

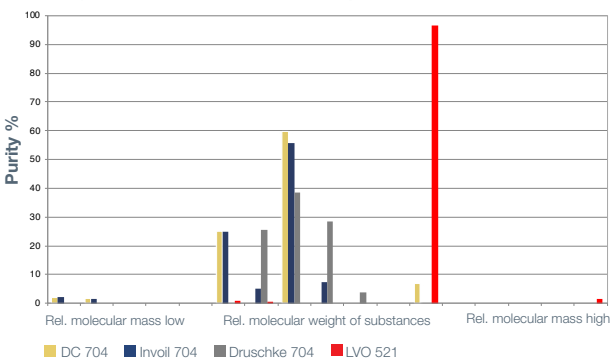
Technical Specifications:

| | LEYBONOL LVO 521 | Dow Corning DC 704/705 (discontinued) |
|---|-----------------------|---|
| Vapor Pressure at 20°C [mbar] | $< 3 \times 10^{-10}$ | 2×10^{-8} to 2×10^{-10} |
| Extrapolated Vapor Pressure at 260°C [mbar] | 2.04 | 1.83 |
| Viscosity at 25°C [mm ² /s] | 180 | 39 to 175 |
| Flash point [°C] | > 240 | 221 to 243 |
| Pour point [°C] | 245 | |

*The oil is mixable with the old LVO 520 and LVO 530 formulas. Mixing the oil could influence the performance of our new premium oil. When replacing LVO 510, the pump needs to be flushed.

GCMS Spectrum

The analyses have been realised in cooperation with Eurofins GmbH.

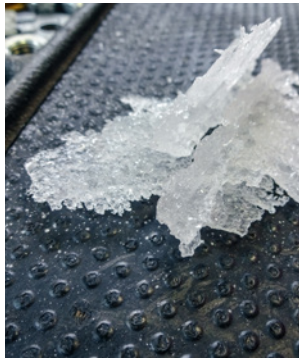


A low relative molecular mass and mixtures of various substances in the oil interfere with the performance of diffusion pumps. LVO 521 contains a very high-purity of a special silicone to help you to get the best performance from your pump.



Benefits

- Premium oil quality with a high level of purity and no hazardous ingredients (see diagram > GCMS Spectrum)
- Very low backstreaming due to its high viscosity and low vapor pressure
- Highly-resistant against oxidation, radiation and decomposition
- Very high temperature stability
- Extended oil life, reduced energy & service costs
- Up to 30% higher performance compared to mineral oil
- No silicone crystallization (see picture below, typical crystallization problem in the field)



Ordering information

| | |
|---------|--------|
| 1 litre | L52101 |
| 5 litre | L52105 |





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Pioneering products. Passionately applied.