



# LUBCON® Products for Vacuum Pump Technology

Vacuum pumps are used in many industrial and scientific areas. Plastic injection molding, electro microscopy, medical processes, surface coating or production of electric lamps are just some industries where vacuum pumps play an essential role in daily industry.

Environmental and operating conditions including high temperature, humidity, dust and pollution, high vacuum and legislation met in food processing are among the reasons where conventional oils present safety risks, waste disposal and high maintenance problems.

LUBCON high performance lubricants are designed for vacuum and cleanroom applications. They are especially formulated with materials that have a narrow range of molecular weight. Besides a wide range of fluorinated oils which are based on the most stable type of perfluorinated polyether (PFPE) we offer unique hydrocarbons, esters, ethers and further oils and greases to meet the requirements of low, medium and ultra high vacuum. Due to low evaporation, long term stability and excellent corrosion inhibitors our lubricants improve mechanism life and performance significantly. They demonstrate excellent lubricating and sealing properties.

## Rotary Vane Pumps

Air and Nitrogen



Aggressive Gas and Solvents

### Turmofluid® VAC 65-12 / 65-68 / 65-90 / 65-125 / 65-800

High performance and highly refined oils have been developed for oil lubricated vacuum pumps to meet primary and fine vacuum, especially for air and neutral gases. Its low vapor pressure allows applications down to **10<sup>-4</sup> mbar**.



### Turmosynth® oil GV Series

Synthetic high temperature oils with NSF/H1 registration.

- ✓ constant low vapor pressure
- ✓ narrow boiling range cut
- ✓ compatible with standard sealings
- ✓ high temperature stability

Oxygen

### Turmofluid® VAC 81-113

Special synthetic base oils for vacuum pumps used for aggressive gas and oxygen environment with very low vapor pressure during the whole application time. OEM approved.

- ✓ BAM tested
- ✓ application range down to **10<sup>-4</sup> mbar**
- ✓ reliable in rough and fine vacuum
- ✓ low vapor pressure
- ✓ low evaporation losses

Oxygen > 21 % Vol and aggressive gas

### Turmotemp® oil VAC 22\*/ 46/ 56/ 86

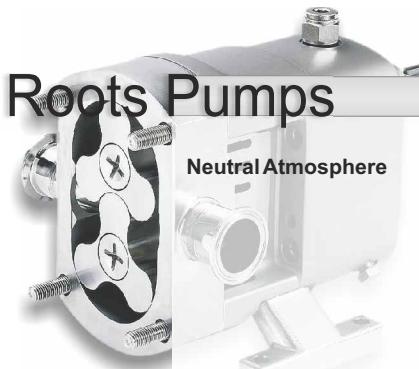
Transparent, thermally and chemically stable polymers with low molecular weight and perfluorinated polyether structure. Excellent oxidation strength and high temperature resistance.  
\*BAM tested

- ✓ high pressure resistance
- ✓ neutral towards seals
- ✓ low evaporation losses
- ✓ compatible with all metals

### Turmotemp® oil 400/02 VAC

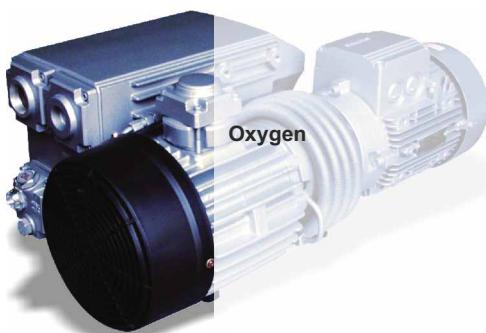
Synthetic lubrication oil with high thermal stability and low evaporation losses. Highly chemical resistant and suitable over a wide temperature range.

- ✓ BAM tested
- ✓ application range down to **10<sup>-7</sup> mbar**
- ✓ non flammable
- ✓ compatible with all metals
- ✓ high oxidation resistance
- ✓ low energy costs



## Roots Pumps

Air or Nitrogen



## Piston Pumps

Air or Nitrogen



## Diffusion Pumps

### Turmofluid® VAC 65-12 / 65-68 / 65-90 / 65-125 / 65-800

Oils for oil lubricated vacuum pumps in fields of rough and fine vacuum with excellent creep and spreading properties. Suitable for high load and high speed applications due to their molecular structure.

- ✓ lubricates in a pressure range level down to  $10^4$  mbar
- ✓ constant low vapor pressure
- ✓ narrow boiling range cut
- ✓ compatible with standard sealings
- ✓ high temperature stability

### Turmofluid® VAC 65-68

Unique synthetic lubricating oil, containing a new additive package, for vacuum pumps with a pressure down to  $10^4$  mbar. Suitable for lubrication when pumping media such as air and neutral gases.

- ✓ excellent protection against friction
- ✓ narrow boiling range cut
- ✓ optimum equipment performance
- ✓ low evaporation losses
- ✓ no chemical attack by mineral oil products

### Turmotemp® oil VAC 22\*/46/56/86

Clear transparent high performance lubricating oils with outstanding thermal stability and a special perfluorinated polyether structure dedicated for use in rotary vane vacuum pumps and piston pumps. Their high oxidation stability and temperature resistance prevent against friction and cracking. Provide optimum operating conditions even at high temperatures due to their high pressure and chemical resistance.

\*BAM tested

- ✓ low evaporation losses
- ✓ non flammable
- ✓ compatible with all metals
- ✓ low solubility
- ✓ low vapor pressure

### Turmofluid® VAC 65-800

Highly refined synthetic hydrocracked cut (SHC) oil formulated to achieve outstanding lubricating results especially when air or chemical aggressive gas is used.

- ✓ low vapor pressure
- ✓ narrow boiling range cut
- ✓ high flash point
- ✓ low solubility

### Turmotemp® oil VAC 46

Lubricant from the Turmotempoil VAC Series with a combination of perfluorinated polyethers for the operation in harsh operating conditions where high oxidation and high temperature resistance is required.

- ✓ non flammable
- ✓ high chemical and thermal resistance
- ✓ low pour point
- ✓ low evaporation losses

### Sintono VAC Fluid 75 N

Clear transparent high performance silicone oil especially for use in diffusion pumps. Its low vapor pressure allows applications down to  $10^{-10}$  mbar.

- ✓ low vapor pressure at room temperature
- ✓ high hydrolysis resistance
- ✓ narrow boiling range cut
- ✓ high chemical and thermal resistance

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