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## PRODUCT TECHNICAL DATASHEET

# VACUUM PUMP OIL

ERRECOM | Supplied by Raj Tech

Product enquiries, availability and bulk orders

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Raj Tech

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Opposite Bolten Market Post Office

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**Original manufacturer technical pages follow.**

Specifications and manufacturer attribution are preserved.

# Vacuum Pump Oil



## Description

Errecom's Vacuum Pump Oils are blends of carefully selected mineral oils, with low vapour pressure and a tight distillation range to ensure the best lubrication performance for vacuum pumps.

Vacuum Pump Oils consist of hydrotreated naphthenic oils improved by additives that preserve the oil's resistance to natural degradation during its service life, extending it and reducing the sludge and deposit growth (oil fouling).

The pluses of using naphthenic base oils for this application are their high solvent power and excellent low-temperature properties that lead to good floc points for the refrigerant-oil mixture. Errecom's Vacuum Pump Oils are wax-free and characterised by a very low pour point, very good cold flow properties and high thermal and chemical stability, which guarantee effective corrosion and wear protection of internal metal surfaces.

The main features of Errecom's Vacuum Pump Oils are:

- high thermal stability: it can be used in closed systems operating even at high temperatures and pressures avoiding the growth of deposits and sludges;
- high oxidation stability: it extends the charge in operation thus preventing the viscosity of the product;
- high hydrolytic stability: it protects the oil from decomposition, even in the presence of small percentages of water;
- good demulsibility: it quickly separates oil from the water that may have entered the system, further inhibiting the oxidation process;
- higher filterability even in the presence of water (compared to previous oils): it avoids filter clogging and extends filter replacement time;
- anti-corrosion and anti-rust power: it protects all metal components of the system;
- anti-foam properties: it avoids foam and air growth that would reduce the efficiency of the system due to the compressibility different from that of the oil.

## Physical and Chemical Properties

| Physical Quantity<br>(unit of measurement) | Analytical Method | ISO 32 | ISO 46 | ISO 68 | HIGH VISCOSITY<br>ISO 46 HD |
|--------------------------------------------|-------------------|--------|--------|--------|-----------------------------|
| ISO VG                                     | /                 | 32     | 46     | 68     | 46                          |
| Kinematic Viscosity at 40°C (cSt)          | ASTM-D445         | 32,2   | 46,4   | 67,9   | 46,8                        |
| Kinematic Viscosity at 100°C (cSt)         | ASTM-D445         | 5,5    | 7,2    | 8,8    | 7,6                         |
| Viscosity Index                            | ASTM-D2270        | 105    | 103    | 102    | 133                         |
| Pour Point (°C)                            | ASTM-D97          | -31    | -26    | -25    | -16                         |
| Flash Point (°C)                           | ASTM-D93          | 210    | 215    | 220    | 225                         |
| Density at 15°C (g/cm <sup>3</sup> )       | ASTM-D1298        | 0,870  | 0,872  | 0,877  | 0,845                       |

## Storage Instructions

Store below 20°C.  
Keep away from open flame, heat, or direct sunlight.  
Store in a dry and cool place.  
Never expose to temperatures above 50°C.

## Transport Conditions

This product is not regulated for transport according to ADR/RID, IMDG, ICAO/IATA.

## Shelf life

5 years from the production date.  
After this period, the product may still be used subject to successful checks on the performance requirements.

## Chemical substance inventory

Errecom's Vacuum Pump Oils are recorded in the following chemical inventories:

| REACH | TSCA | DLS    | ENCS  | KECL  | IECSC | PICCS       | AICS      | NZIOC       |
|-------|------|--------|-------|-------|-------|-------------|-----------|-------------|
| UE    | USA  | Canada | Japan | Korea | China | Philippines | Australia | New Zealand |