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## PRODUCT TECHNICAL DATASHEET

# MINERAL OIL

ERRECOM | Supplied by Raj Tech

Product enquiries, availability and bulk orders

+92 321 0820 786 | [rajtechshop.com](http://rajtechshop.com)

Raj Tech

Shop # 12, Ground Floor, Falak Corporate City

Opposite Bolten Market Post Office

Bolten Market, Karachi - 74000, Pakistan

**Original manufacturer technical pages follow.**

Specifications and manufacturer attribution are preserved.



## Description

Errecom's mineral oils are highly refined hydrotreated naphthenic bases enhanced by additives that inhibit oxidation, rust and corrosion, ensuring:

- High ageing stability
- High viscosity index and low pour point (especially with lower viscosities)
- High demulsibility (rapid water separation)
- Very good resistance to foam formation and air entrainment
- Excellent low-temperature behaviour
- Good compatibility with: ammonia (NH<sub>3</sub>), HCFC (e.g. R22), hydrocarbons (e.g. propane R290 and propylene R1270).

The high solvent power and excellent low-temperature properties contribute to good floc points for the refrigerant-oil mixture. Errecom's mineral oil, thanks to its wax-free formulation, is characterised by a low pour point and good cold pour properties. At high temperatures, Errecom's Mineral Oil has a higher flash point than other products on the market along with high thermal and chemical stability. It does not corrode iron, copper, and aluminium. It is recommended for use in systems using hydrocarbon refrigerant gases, such as isobutane (R600a), ammonia (R717) and CFCs (R12 and R22).

## Physical and Chemical Properties

| Physical Quantity Measured<br>(Unit of Measurement) | Analytical<br>Reference Method | Mineral 32/3 | Mineral 46 | Mineral 55/4 | Mineral 68 |
|-----------------------------------------------------|--------------------------------|--------------|------------|--------------|------------|
| ISO VG                                              | /                              | 32           | 46         | 55           | 68         |
| Kinematic Viscosity at 40°C (cSt)                   | ASTM-D445                      | 32           | 46         | 55           | 68         |
| Kinematic Viscosity at 100°C (cSt)                  | ASTM-D445                      | 4.6          | 5.4        | 6.2          | 6.6        |
| Viscosity Index                                     | ASTM-D2270                     | 95           | 94         | 96           | 95         |
| Pour Point (°C)                                     | ASTM-D97                       | -45          | -36        | -32          | -30        |
| Flash Point (°C)                                    | ASTM-D93                       | 190          | 194        | 198          | 200        |
| Density at 15°C (g/cm <sup>3</sup> )                | ASTM-D1298                     | 0.904        | 0.91       | 0.91         | 0.915      |
| Moisture Level (ppm)                                | ASTM-D6304                     | 16           | 16         | 18           | 17         |
| Total Acid (mg KOH/g)                               | ASTM-D974                      | 0.02         | 0.02       | 0.02         | 0.02       |
| Colour                                              | ASTM-D1500                     | 0.5          | 1.0        | -            | 1.0        |

## Storage Instructions

Store below 20°C.  
Keep away from open flame, heat sources and direct sunlight.  
Store in a dry and cool place.  
Do not store 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 date of production.  
After this period, the product may still be used, contingent upon verification that its parameters comply with performance requirements.

## Chemical substance inventory

Errecom's mineral oils are recorded in the following chemical inventories:

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

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