



# Transformer Oil

## Specifications

| Test Description                          | Test Method | Specification limits |                  | Typical Values |
|---|-------------|----------------------|------------------|----------------|
|   |             | MIN                  | MAX              |                |
| <b>Physical</b>                           |             |                      |                  |                |
| Aniline Point                             | °C          | ASTM D611            | 63               | 73             |
| Color                                     |             | ASTM D1500           | 0.5              | L0.5           |
| Flash Point                               | °C/°F       | ASTM D92             | 145/293          | 153/307        |
| Interfacial Tension @ 25°C                | mN/m        | ASTM D971            | 40               | 48             |
| Pour Point                                | °C          | ASTM D97             | - 40             | - 57           |
| Relative Density @ 15°C/15°C              |             | ASTM D1298           | 0.91             | 0.884          |
| Viscosity @ 100°C                         | cSt         | ASTM D445            | 3.0              | 2.36           |
| Viscosity @ 40°C                          | cSt         | ASTM D445            | 12.0             | 8.88           |
| Viscosity @ 0°C                           | cSt         | ASTM D445            | 76.0             | 56             |
| Visual Examination                        |             | ASTM D1524           | Clear and bright |                |
| <b>Electrical</b>                         |             |                      |                  |                |
| Dielectric Breakdown Voltage              | kV          | ASTM D877            | 30               | 47             |
| Dielectric Breakdown Voltage, 2 mm gap    | kV          | ASTM D1816           | 35               | - 40           |
| Impulse Breakdown Voltage                 | kV          | ASTM D3300           | 145              | 0.91           |
| Gassing Tendency                          | µL/min      | ASTM D2300           | + 30             | Complies       |
| Dissipation Factor (Power Factor) @ 25°C  | %           | ASTM D924            | 0.05             | 0.004          |
| Dissipation Factor (Power Factor) @ 100°C | %           | ASTM D924            | 0.3              | 0.038          |
| <b>Chemical</b>                           |             |                      |                  |                |
| Oxidation Stability                       |             | ASTM D2440           |                  |                |
| Sludge @ 72 hours                         | % by mass   | ASTM D2440           | 0.1              | < 0.01         |
| Acid Number @ 72 hours                    | mg KOH/g    | ASTM D2440           | 0.3              | < 0.01         |
| Sludge @ 164 hours                        | % by mass   | ASTM D2440           | 0.2              | < 0.01         |
| Acid Number @ 164 hours                   | mg KOH/g    | ASTM D2440           | 0.4              | < 0.01         |
| Rotating Pressure Vessel                  | minutes     | ASTM D2112           | 195              | 298            |
| Inhibitor Content                         | %           | ASTM D2668           | 0.2              | 0.3            |
| Corrosive Sulfur                          |             | ASTM D1275           | Not corrosive    | Not corrosive  |
| Water Content                             | mg/kg       | ASTM D1533           | 35               | 15             |
| Acid Number                               | mg KOH/g    | ASTM D974            | 0.03             | < 0.01         |
| PCB Content                               |             | ASTM D4059           | Not detectable   | Not detectable |
| <b>Health Safety and Environment</b>      |             |                      |                  |                |
| Polycyclic Aromatic Compounds wt %        |             | IP 346               | 3.0              | < 3.0          |
| Modified Ames Assay                       |             | ASTM E1687           | pass             | pass           |

## Features

Our Transformer Oil is a naphthenic mineral oil of exceptional antioxidant and corrosion resistance to sulfide, as well as chemical purity, stability and durability during service.

The product meets the performance requirements of ASTM D3487 standard (2009).

Our supplier uses exclusively naphthenic high quality raw material.

## Usage

Naphthenic mineral oil of excellent quality, sustainable and technically competitive for use in transformers.



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Product manufactured  
under standards  
ISO 9001 and 14001 and ISO 14001