# Transformer Oil XE

**REXOIL Transformer Oil XE** is a high-quality inhibited electrical insulating oil produced from severely hydrotreated naphthenic base oil. It is specially designed for use in transformers, switchgear, and other oil-filled electrical equipment where excellent dielectric performance, oxidation stability, and cooling efficiency are required. The product is manufactured to meet the general specification requirements defined in IEC 60296, Edition 5 (2020) for mineral insulating oils.

**REXOIL Transformer Oil XE** is recommended for use in power transformers, distribution transformers, oil-filled switchgear, reactors, and circuit breakers. It is also suitable for a wide range of electrical equipment requiring reliable insulating and cooling performance in oil-filled electrical insulating and heat transfer systems.

## *Technical Specifications*

| Test Description | Method | Specification | Typical Value |
|---|---|---|---|
| **Viscosity, $mm^2/s$ at 40°C** | ISO 3104 | Max 12.0 | 10.5 |
| **Viscosity, $mm^2/s$ at -30°C** | ISO 3104 | Max 1800 | 980 |
| **Pour Point, °C** | ISO 3016 | Max -40 | -48 |
| **Water Content, mg/kg** | IEC 60814 | Max 30 | 15 |
| **Breakdown Voltage, kV, Before treatment, 2.5 mm** | IEC 60156 | Min 30 | 50 |
| **Breakdown Voltage, kV, After treatment, 2.5 mm** | IEC 60156 | Min 70 | 74 |
| **Density at 20°C, g/ml** | ISO 12185 | Max 0.895 | 0.875 |
| **DDF at 90°C** | IEC 60247 | Max 0.005 | 0.00055 |
| **Appearance** | IEC 60296 | Min PASS | PASS |
| **Acidity, mg KOH/g** | IEC 62021-1 | Max 0.01 | 0.0010 |
| **Corrosive Sulfur** | DIN 51353 | Noncorrosive | Noncorrosive |
| **Corrosive Sulfur** | IEC 62535 | Noncorrosive | Noncorrosive |
| **DBDS, mg/kg** | IEC 62697-1 | Not detected (<5) | Not detected (<5) |
| **Inhibitors, %** | IEC 60666 | Min 0.08 Max 0.4 | 0.32 |
| **Metal Passivator Additives, mg/kg** | IEC 60666 | Not detected (<5) | Not detected (<5) |
| **Furfural Content, mg/kg** | IEC 61198 | Not detected (<0.05) | Not detected (<0.05) |
| **Oxidation Stability Total Acidity** | IEC 61125 C | Max 1,2 | 0.0064 |
| **Oxidation Stability Sludge %** | IEC 61125 C | Max 0.8 | 0.0070 |
| **Oxidation Stability DDF at 90°C** | IEC 61125 C | Max 0.5 | 0.11 |
| **Flash Point, PMCC, °C** | ISO 2719 | Min 135 | 146 |
| **PCA Content, %** | IP 346 | Max.3 | 0,18 |
| **PCB Content, mg/kg** | IEC 61619 | Not detected (<2) | Not detected (<2) |

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