



BIODIEKAN TRANSFORMER OIL

BIODIEKAN TRANSFORMER OIL is rapidly biodegradable synthetic transformer oil that meets important electrical industry standards. It meets most requirements of ASTM D-3487 (petroleum-based) fluid. It exhibits high dielectric strength and has excellent service life for operation under severe conditions. It is compatible with mineral oil and contains no PCBs.

BIODIEKAN TRANSFORMER OIL is recommended for use in electrical equipment such as distribution and substation transformers, circuit breakers, oil filled capacitors, switches, tap changers, and electrical reclosures. It may also be used in electrical applications requiring a very low viscosity fluid or a biodegradable fluid.

TYPICAL CHARACTERISTICS

| Product Code | ASTM D 3487 Type I Limits | NA |
|--|------------------------------|-----------------|
| Specific Gravity (ASTM D-1298) at 60 F (15 C) | 0.91 max | 0.822 |
| Viscosity (ASTM D-445): cSt @ 40°C | 12 | 4.35 |
| cSt @ 100°C | 3 | 1.57 |
| Flash Point (ASTM D-92) °F (°C) | 145 C min | 280 (138) |
| Pour Point (ASTM D-97) °F (°C) | N/A | <-49 (<-45) |
| Color (ASTM D-1500) | 0.5 max | 0.0 |
| Dielectric Strength, kV (ASTM D-877) | 30 min | 54 |
| Interfacial Tension, Dynes/cm (ASTM D 971) | 40 min | 35.8 |
| Dielectric Breakdown: 2.0 mm gap, kV (ASTM D-1816) | 56 min | 61 |
| Power Factor (ASTM D-924): @ 25°C, % | 0.05 max | 0.023 |
| @100°C, % | 0.30 max | 0.35 |
| Biodegradability, CEC-L33-A-93 | 51% min | 96% (excellent) |
| Water Content, ppm (ASTM D-1533) | 35 max | 5 |
| Neutralization Number (ASTM D-974) mg KOH/g | 0.03 max | <0.01 |
| Rotating Bomb Oxidation Test, minutes (ASTM D-2112) | N/A | 210 |
| Oxidation Stability (D 2440) 164 hour test - % Sludge | 0.6 max | <0.1 |
| -Acid Number | 0.3 max | <0.1 |
| Corrosive Sulfur Test (ASTM D-1275), No corrosion | Pass | Pass |
| Thermal Conductivity, mW/cm/K @ 60 C (ASTM D 5334) | N/A | .000735 |
| Gassing Tendency, uL/min (ASTM D-2300): Procedure B | 30 max | -19 |
| Toxicity at 1% concentration (non-lethal and 0% mortality) | Pass | Pass |
| PCB Content (ASTM D-4059) | N/A | None |

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-5823.
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