



Transformer Oil

Conoco Transformer Oil is an insulating oil of very high-dielectric strength.

Applications

Oil-filled transformers in both large substations and small pole-mounted transformers. It also is suited for use in circuit breakers, switches and any other oil-immersed electrical equipment.

It meets the requirements of ANSI/ASTM D3487 Type II for inhibited oils. This specification provides uniform functional characteristics for petroleum electrical-insulating oil and is recognized by the Institute of Electrical and Electronic Engineers (IEEE) and other professional societies that deal with insulating materials. It also meets Westinghouse Specification PDS 55822AG and Federal Specification VV-L-530A.

Outstanding Features

- Pours easily
- High-dielectric strength
- High Flash Point for greater safety
- Free from corrosive sulfur, acid and alkali
- Resists oxidation to reduce deposits
- Compatible with materials used in transformer construction
- Does not contain PCBs

**An Inhibited Oil For
Transformers And
Electric Apparatus**

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**Transformer Oil
Typical Properties**

| | |
|---|--------------|
| Density (lb/gal at 60°F) | 7.28 |
| Flash Point, (°F) | 315 |
| Pour Point, (°F) | -67 |
| Aniline Point, (°F) | 172 |
| Viscosity, | |
| cSt @ 40°C | 9 |
| cSt @ 100°C | 2.3 |
| SUS @ 100°F | 56 |
| SUS @ 210°F | 34 |
| Viscosity Index | 72 |
| Approved Antioxidant Content (wt %) | 0.26 |
| Corrosive Sulfur | Noncorrosive |
| Neutralization No. | <0.01 |
| Acid/Sludge Test (72 hrs) | 0.01 |
| Acid/Sludge Test (162 hrs) | 0.03 |
| RBOT (ASTM D-2272, min) | 300 |
| Dielectric Breakdown Voltage at 60 hertz, | |
| Disc electrodes (kv) | 47 |
| VDE electrodes (kv)* | |
| @ 0.040 inch gap | 32 |
| @ 0.080 inch gap | 60 |
| Power Factor at 60 hertz (%), | |
| 25°C | 0.003 |
| 100°C | 0.087 |
| Gassing Tendency (cc/min at 80°C) | -14.5 |
| Moisture (ppm, max) | 20 |
| Interfacial Tension at 25°C (dynes/cm) | 46 |
| Polychlorinated Biphenyls (PCBs) | Nil |
| ASTM Color | 0.5 |

*Applies only to new oil that has been filtered, dehydrated and degased.

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