

TRANS-PLUS

A

TRANSFORMER OILS

328100101

DYADE

LUBRICANTS



PREMIUM UNINHIBITED TRANSFORMER INSULATING OILS

These products consist of highly refined, hydro-treated, virgin mineral insulating oils with exceptional purity and stability. They are produced using a carefully selected blend of state-of-the-art feedstocks. These uninhibited transformer oils offer outstanding oxidation stability, high dielectric strength, and are suitable for use in equipment that operates at high temperatures and requires superior oxidation resistance. In more demanding applications where higher temperatures and better oxidation resistance are required, our inhibited line of transformer oils may be recommended. These products are suitable for use in power transformers, distribution transformers, circuit breakers, oil-filled switches, and x-ray equipment of all grades.

CATEGORY

- Industry Specific

BENEFITS

- Higher flash point, resulting on low evaporation losses and better safety
- Remarkably low sludge and acidity formation, in both ageing and oxidation tests, results in longer life of oil and equipment
- Low viscosity oils offering excellent and fast heat transfer
- Very low sulphur and no DBDS content
- Non corrosive

| PROPERTY | METHOD | VALUE |
|--|----------------------------|-------------------------------------|
| Appearance | | B&C, free from suspended impurities |
| Odour | | Odourless |
| Density @ 20 °C, kg/dm ³ | ISO 3675 | 0.895 |
| Kinematic viscosity, mm ² /s 40°C | BS EN ISO 3104 | 16.5 |
| Kinematic viscosity, mm ² /s 27°C | IS 1448 (part-25) | |
| Kinematic viscosity, mm ² /s -15°C | BS EN ISO 3104 | 800 |
| Kinematic viscosity, mm ² /s -30°C | | |
| Flash point PMCC, °C | BS EN ISO 2719 | 140 |
| Pour point, °C | BS EN ISO 3016 | ≤-30 |
| Neutralisation value/Acidity, mg KOH/g | IEC 62021-1 BS 148-1998 | 0.03 |
| Corrosive sulphur - Silver strip, 100 °C, 18 h | DIN 51 353 | Non corrosive |
| Corrosive sulphur - Cu Strip, 140 °C, 19 h | BS 5680/IS335 Annex B | Non corrosive |
| Corrosive sulphur - Cu Strip, 150 °C, 48 h | ASTM D1275-B | Non corrosive |
| Corrosive sulphur - Cu Strip & Paper, 150 °C, 72 h | IEC 62535:08 | Non corrosive |
| Water content, max mg/kg, Max - Bulk | IEC 60814 | 30 |
| Water content, max mg/kg, Max - Drum | IEC 60814 | 40 |
| Anti-oxidant additives, % Max | IEC 60666/BS 5984 | Not detectable |
| Oxidation stability, 164 hrs - Neutralization value, mg KOH/g | IEC & BS EN 61125 | 0.4 |
| Oxidation stability, 164 hrs - Total sludge (%) max | Method A&C | 0.1 |
| Oxidation stability, 164 hrs - DDF @ 90 oC | IEC 60247 | 0.5 |
| Breakdown voltage - Delivered (kv), min | IEC & BS EN 60156 | 30 |
| Breakdown voltage - After treatment (kv), min | IEC & BS EN 60156 | 50 |
| Dielectric dissipation factor DDF @ 90 oC | IEC 60247 | 0.005 |
| Gassing tendency @ 50 Hz after 120 min, mm ³ /min, method A (max) | BS 5797/ IEC 60628,A | +5 |
| Total PCB content, mg/kg | IEC & BS EN 61619 | Non detectable |
| Total furans, mg/kg | IEC & BS 61198 | 0.10 |
| Polycyclic aromatics % mass, typical | BS 2000 (P:346) | 0.613 |
| Interfacial tension, mN/m, min | ISO 6295 | 40 |
| Total Sulphur Content, %, max | BS 2000 Part 373/ISO 14596 | No requirements |

All data on this technical data sheet is indicative only

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