

Nytro Taurus is an uninhibited transformer oil that conforms to IEC 60296:2020 edition 5.0, Type B, TVBU. Developed and formulated to deliver solid resistance to oil degradation, Nytro Taurus provides good oxidation stability thanks to its natural inhibitors. This increases the possibilities for a longer transformer life with less maintenance.

Designed for heavy duty

This product has been specially developed for use in oil-filled electrical equipment – including power and distribution transformers, rectifiers, circuit breakers and switchgears.

Performance and benefits

Good heat transfer. Thanks to low viscosity and viscosity index, this standard grade offers extremely good heat transfer characteristics, ensuring heat is efficiently removed from core and windings.

Reliable oxidation stability. Developed and formulated to deliver good resistance to oil degradation, this grade also provides good oxidation stability for enhanced transformer life and minimum maintenance.

Very good low temperature properties. Naphthenic characteristics allow the transformer to start at the lowest possible temperature – without using pour point depressants.

High dielectric strength. This insulating oil both meets and exceeds the toughest demands on dielectric strength – when stored and handled correctly.

Product description

Nytro Taurus fulfils the requirements for IEC 60296:2020 edition 5.0 uninhibited oil and it is 100% recyclable. Nynas classify this product as a standard grade.

In accordance with IEC 60296:2020 edition 5.0 all additives are declared.

Solutions for the transition to a sustainable society

Nynas offers bitumen and naphthenic specialty products for applications that touch people's lives every day, for example in electrification and road infrastructure. Our core competence is to upgrade heavy molecules into high performance, long-lasting specialty products. We operate in an international market with a strong focus on Europe, working closely with customers to create solutions to meet challenges and capture opportunities in the transition to a sustainable society.

| PROPERTY | Unit | Test Method | Specification Limits | | Typical Data |
|---|--------------------------|-------------|---------------------------|--------|---------------------------|
| | | | Min | Max | |
| 1 - Function | | | | | |
| Viscosity, 40°C | mm ² /s (cSt) | ISO 3104 | | 12 | 9.4 |
| Viscosity, -30°C | mm ² /s (cSt) | ISO 3104 | | 1800 | 980 |
| Pour point | °C | ISO 3016 | | -40 | -54 |
| Water content | mg/kg | IEC 60814 | | 30 | < 20 |
| Breakdown voltage | kV | IEC 60156 | | | |
| - Before treatment | kV | IEC 60156 | 30 | | 40-60 |
| - After treatment | kV | IEC 60296 | 70 | | > 70 |
| Density, 20°C | kg/dm ³ | ISO 12185 | | 0.895 | 0.864 |
| DDF at 90°C | | IEC 60247 | | 0.005 | < 0.001 |
| 2 - Refining/stability | | | | | |
| Colour | | ISO 2049 | | 1.5 | < 0.5 |
| Appearance at 15°C | | IEC 60296 | Clear, Free from Sediment | | Clear, Free from Sediment |
| Acidity | mg KOH/g | IEC 62021 | | 0.01 | < 0.01 |
| Interfacial tension at 25°C | mN/m | IEC 62961 | 40 | | 47 |
| Corrosive sulphur | | DIN 51353 | Non-Corrosive | | Non-Corrosive |
| Potentially corrosive sulphur | | IEC 62535 | Non-Corrosive | | Non-Corrosive |
| Corrosive sulphur | | ASTM D1275 | Non-Corrosive | | Non-Corrosive |
| DBDS | mg/kg | IEC 62697-1 | Not Detectable | | Not Detectable |
| Antioxidants | wt % | IEC 60666 | Not Detectable | | Not Detectable |
| Metal passivator additives | mg/kg | IEC 60666 | Not Detectable | | Not Detectable |
| Other additives * | | | None | | None |
| 2-Furfural and related compounds content | mg/kg | IEC 61198 | | < 0.05 | < 0.05 |
| Aromatic content | % | IEC 60590 | | | 7 |
| 3 - Performance | | | | | |
| Oxidation stability at 120°C, 164 h | | IEC 61125 | | | |
| - Total acidity | mg KOH/g | IEC 61125 | | 1.2 | 0.7 |
| - Sludge | wt % | IEC 61125 | | 0.8 | 0.11 |
| - DDF at 90°C | | IEC 61125 | | 0.500 | 0.028 |
| 4 - Health, safety and environment (HSE) | | | | | |
| Flash Point, PM | °C | ISO 2719 | 135 | | 145 |
| PCA | wt % | IP 346 | | < 3.0 | < 3.0 |
| PCB | mg/kg | IEC 61619 | Not Detectable | | Not Detectable |

*this product contains no undeclared additives

NYTRO TAURUS is an uninhibited insulating oil meeting IEC 60296:2020 edition 5.0, Type B, TVBU and it is 100% recyclable. Breakdown voltage after treatment as per definition in IEC 60296, section 6,4

Severely hydrotreated insulating oil

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