

DelcoTerm[®] S TRA



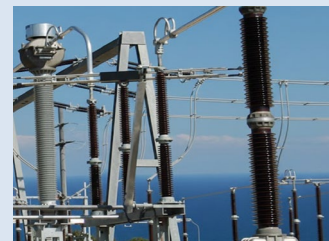
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DIELECTRIC FLUID FOR HIGH TENSION CAPACITORS

The Ultimate Dielectric Solution for Next-Generation Capacitors

Engineering Efficiency for a Competitive Market

In the demanding world of capacitor manufacturing, staying ahead means maximizing efficiency. To achieve peak competitiveness, you need materials that perform without compromise. **DelcoTerm[®] S TRA** is engineered for manufacturers who refuse to settle for anything less than excellence.



Reliability Under Pressure

Modern applications push components to the limit. You need a dielectric fluid capable of withstanding extreme conditions—temperature fluctuations, high stress, and rigorous duty cycles—without the slightest adverse effects on performance or longevity.

Heritage Meets Innovation

DelcoTerm[®] S TRA represents the pinnacle of dielectric fluid design. It is a future-proof solution specifically developed to meet and exceed the requirements of today and tomorrow power film technologies.

Why Choose DELCOTERM[®] S TRA?

Streamlined Handling & Safety

- **Safety First:** Formulated for excellent safety.
- **Low Viscosity:** Designed for easy handling, ensuring simple and efficient impregnation and operation.

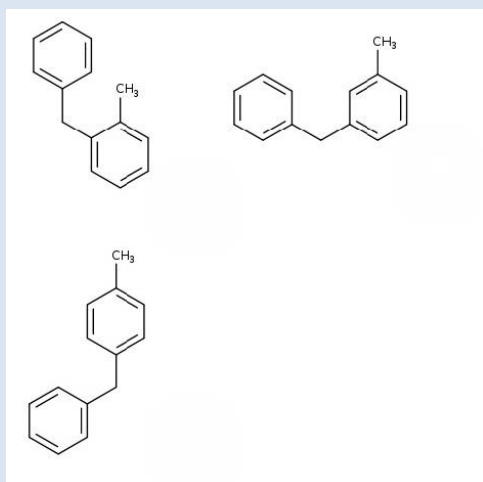
Superior Electrical Performance

- **High Voltage Resistance:** Exceptional resistance as demonstrated by high emergence thresholds of partial discharges.
- **Low-Temperature Reliability:** Rapid partial discharge extinction rates.
- **Maximum Cost Savings:** Minimize operating costs through a very low loss level (**W/kVAR**), optimized as a function of gradient and temperature.

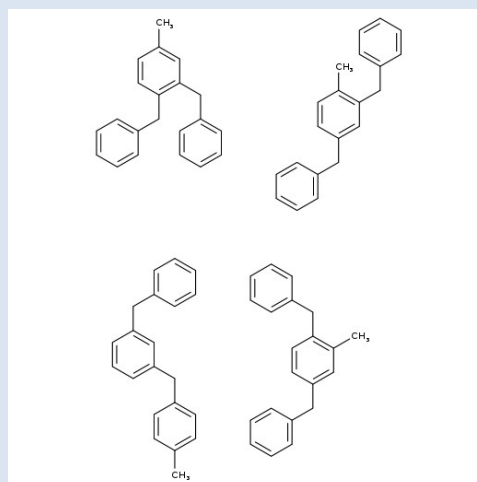
DelcoTerm[®] S TRA: The competitive edge for your high-performance capacitors.

Available now for trade users looking to integrate the highest standards of dielectric technology into their production line.

CHEMICAL STRUCTURE



Benzyltoluene (MBT) – CAS 27776-01-8
Molecular Formula C₁₄H₁₄



Dibenzyltoluene (DBT) – CAS 53585-53-8
Molecular Formula C₂₁H₂₀

The product **DelcoTerm® S TRA** is formulated from Monobenzyl Toluene (MBT) and Dibenzyl Toluene (DBT) in a precisely controlled ratio, enhanced with a selected combination of functional additives.

Through advanced degassing, dehydration, and refining processes, the material achieves outstanding physical, chemical, and electrical performance.

Specifically developed for high-voltage and ultra-high-voltage full-film power capacitors, this product ensures high reliability, long service life, and superior operating efficiency of the capacitors.

| <i>Property</i> | <i>Unit</i> | <i>Typical value</i> |
|--|--------------------|-------------------------------|
| Appearance | - | Colorless, transparent liquid |
| Density (20°C) | g/cm ³ | 0.980-1.020 |
| Acid Number | mgKOH/g | ≤0.035 |
| Flash point (PM) | °C | ≥130 |
| Flash point (COC) | °C | ≥140 |
| Pour point | °C | ≤-55 |
| Kinematic Viscosity (40°C) | mm ² /s | ≤4.0 |
| Breakdown Voltage (Spherical electrode 5Øx2.5mm) | kV | ≥60 |
| Relative Permittivity (90°C, 50Hz) | - | 2.45-2.65 |
| Water Content | mg/kg | ≤75 |
| Chlorin Content | mg/kg | ≤30 |
| Epoxy Content | mgHCl/g | 1.6-2.0 |

The data reported above are indicative only and may vary depending on the production batches. For real final values, please refer to the Certificate of Analysis (COA) of each specific batch.

Toxicity – Ecotoxicity

Safety data are provided in the **Safety Data Sheet (SDS)**, available upon request.

Packaging

Supplied in **ISO-Containers** or **200 kg drums**.