
Core cooling duct

These core cooling ducts are state-of-the-art products applied to cores of oil-filled transformers. Advantages over systems used in the past are more effective heat dissipation by multi-directional oil flow.

Attributes

Aramide paper comprised with spacers made of silicate ceramic.

Application

Transformer construction, esp. transformers with oil core

Base

Synthetic electro-insulation paper constructed of a calandered, aromatic polyamide fibrille flock composition. See technical data sheet SynTherm® YT510.

| General | Unit of measure | Silicate ceramics | Adhesive | Test method |
|------------------------------|-------------------|-------------------|----------|-------------|
| Density at 20 °C | g/cm ³ | | 1.07 | DIN 53217 |
| Danger of explosion | | | nein | |
| self-flammable | °C | | nein | |
| Flashpoint | °C | | 73 | |
| Boiling point | °C | | 100 | H.B. Fuller |
| pH-value: at 20 | °C | | 6 | DIN 38404 |
| Dielectric strength | kV/mm | 20 | | |
| Max. application temperature | °C | 1200 | | |
| Thermal conductivity | W/m*K | 2-3 | | |
| Coefficient of expansion | K-1 | 7-9 | | |
| Compressive strength | N/mm ² | 900 | | |

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