

# MOL TO 40A Extra

## inhibited insulating oil



MOL TO 40 A Extra is an inhibited insulating oil, containing naphthenic base oils and additives that inhibit oxidation, having excellent electrical properties. It has a guaranteed high insulation strength, so it does not need preliminary treatment before filling. Its excellent insulating property is also supported by its high surface tension. It complies with the new copper corrosion specifications introduced in the ASTM D 1275 B and IEC 62535 standards used by the electricity transmission industries. It does not contain PCB, PCT or furan compounds.

### Application



Oil filled electrical equipment  
High power transformers  
Circuit breakers, oil-filled switches

### Features and benefits

|  |   |
|--|---|
| Extremely long oil lifetime              | Ensures equipment protection, provides durable insulation and cooling properties<br>Fill-for-life application achievable in low power transformers<br>Oil change and reconditioning costs can be reduced significantly                      |
| High breakdown voltage                   | Guaranteed high breakdown voltage value, no need for pre-treatment before filling<br>Maintains insulating properties, even at high voltage, and protects from electric discharges<br>Long, reliable operation                               |
| Low dielectric loss factor               | Low dielectric loss, high equipment efficiency  |
| Excellent heat transfer                  | The heat generated is rapidly conducted away from the surface of the coils, increasing equipment and oil service lifetimes  |
| Outstanding oxidation stability          | Resists ageing processes in the long term and harmful deposits are not formed<br>Enables long drain interval application<br>Operational, maintenance and disposal costs are reduced<br>Long equipment and oil service lives can be achieved |
| Excellent properties at low temperatures | Trouble-free heat transfer process within electrical equipment, even under winter weather conditions<br>Problem-free starting even at low temperatures  |
| Non-corrosive                            | Complies with the copper corrosion requirements required by industry<br>Protects parts from damage, giving increased equipment lifetime<br>Contributes to achieving short-term return on investment   |

### Specifications and approvals

ISO-L-N  
IEC 60296 (2012)  
IEC 296 Class IA  
BS 148 Class IA

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### Properties

| Properties  | Typical values |
|---|----------------|
| Density at 15°C [g/cm <sup>3</sup> ]                | 0,865          |
| Kinematic viscosity at 20°C [mm <sup>2</sup> /s]    | 22             |
| Kinematic viscosity at 40°C [mm <sup>2</sup> /s]    | 9,3            |
| Pour point [°C]                                     | -45            |
| Flash point (Pensky-Martens) [°C]                   | 140            |
| Interfacial tension [mN/m]                          | 42             |
| Corrosive sulphur (on silver plate)                 | not corrosive  |
| Corrosive sulphur (150 °C, 48 h)                    | not corrosive  |
| Corrosive sulphur (150 °C, 72 h)                    | not corrosive  |
| Breakdown voltage [kV]                              |                |
| - before treatment [kV]                             | 75             |
| Dielectric dissipation factor at 90 °C, at 40-60 Hz | 0,0004         |

The characteristics in table are typical values of the product and do not constitute a specification.

### Storage and handling instructions

Store in the original container in dry, properly ventilated area. Keep away from direct flame and other sources of ignition. Protect from direct sunlight.

During transport, storage and use of the product follow the work safety instructions and environmental regulations relating to mineral oil products.

For further details please read the Material Safety Data Sheet of the product.

In the original container under the recommended storage conditions: 24 months

Recommended storage temperature: max. 40°C

### Ordering information

Custom Tariff Number 27101993

#### SAP code and packaging:

13006602 MOL TO 40A Extra 170KG

216.5 l steel drum

#### Order booking:

Please contact your local distributor or sales partner for ordering details.