



ELECTRICAL OIL SERVICES

EOS® Classic

Regenerated Mineral Insulating Oil

Description

Produced from selected used and regenerated insulating oils which fully meets the requirements of BS148:2009 for the operational requirements for Unused Mineral Insulating Oil.

Application

Perfect for use in all maintenance and refurbishment activities including oil-filled switchgear, tap changers, diverters and transformer top-ups.

Table 1 - Uninhibited mineral Insulating oils

Property	Test method	Limiting values for measured characteristics
Appearance	7.1	Clear, free from sediment and suspended matter
Density, kg/dm ³ at 20°C	7.2	≤0.895 ^{A)}
Kinematic viscosity mm ² /s 40°C -15°C	7.3	≤ 13 ^{B)} ≤ 800
Flash point, °C	7.4	≥ 135
Pour point, °C	7.5	≤ -30
Neutralization value, mg KOH per g of oil	7.6	≤ 0.03
Corrosive sulfur	7.7	Non-corrosive
Passivator content	7.8	Not detectable ^{C)}
Water content, mg/kg bulk delivery drum delivery	7.9	≤ 20 ≤ 30
Anti-oxidant additives	7.10	Not detectable ^{D)}
Oxidation stability, 164 h total acidity, mg KOH per g of oil sludge, % by mass	7.11	≤ 1.2 ≤ 0.8
Breakdown voltage, as delivered, kV	7.12	≥ 30
Dialectric dissipation factor, at 90°C and 40 Hz to 62 Hz	7.13	≤ 0.005
Total PCB content mg/kg	7.14	To be agreed ^{E)}
Total furans mg/kg	7.15	< 0.2

^{A)} A maximum limit for density is specified in an attempt to minimize the risk of ice crystals floating in the oil where oil-insulated equipment is exposed to very low temperatures.

^{B)} The corresponding viscosity value at 20 °C is approximately 40 mm²/s.

^{C)} Subject to agreement between purchaser and supplier, a metal passivator may be incorporated in the oil to a maximum concentration of 100 mg/kg as measured by the method given Annex A.

^{D)} No anti-oxidant shall be included in uninhibited oils.

^{E)} To be agreed between supplier and purchaser but not more than 10 mg/kg

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