

MANUTEC ELECTRATE ECO-U

Product Code: SPE012 | **Revision:** 20260204



Premium reclaimed uninhibited mineral insulating oil.

Available Pack Sizes



Applications

A premium, uninhibited naphthenic mineral oil for use in transformers, rheostats and circuit breakers. Carefully formulated from the highest purity reclaimed mineral oils, it offers a sustainable and environmentally responsible alternative to virgin oils. This insulating oil delivers a high dielectric strength, reliable low temperature fluidity and good thermal and oxidation stability. Ensuring long-term, trouble-free operation of electrical equipment. Ideal for transformers, switchgear and circuit breakers, it provides utilities and industrial applications with a combination of performance, reliability and sustainability.

Recommended by Aztec Oils as suitable for the following applications

ASTM D3487-2016
BS148:2020
IEC 60296:2012
Suitable for use in all types of power and distribution transformers, circuit breakers, oil-filled switches and X-ray equipment.

Benefits

- Eco-friendly - made from high purity reclaimed oils.
- Low sulphur levels eliminate related copper corrosion issues.
- Low viscosity oils offering excellent & fast heat transfer.
- Oxidation stability promotes a long service life.
- No DBDS.
- Non-corrosive as tested by all present methods, DIN & ASTM tests & IEC 62535 method.
- Very low pour point.

Typical Test Data

Appearance		Clear & bright, straw
Density @ 15°C (kg/m ³)	ASTM D4052	0.898
Flash Point (°C)	ASTM D92	>135
Kinematic Viscosity @ 40°C (mm ² /s)	ASTM D445	12
Kinematic Viscosity @ -30°C (mm ² /s)	ASTM D445	1800
Pour Point (°C)	ASTM D97	<-40
Acidity (mgKOH/g)		<0.01
Breakdown Voltage (kV)		>30 (typically >60)
Oxidation Stability (mgKOH/g)		<1.2
PCB Content (ppm)		Non detectable (< 2mg/kg)
Sludge (%)		<0.8
Water Content (mg/kg)		<30 (typically <10)

The typical test data provided is taken from average values, there will be some variability in production and therefore do not constitute a specification.

In line with our policy of continued improvement, Aztec Oils reserve the right to change specifications and availability without prior notice. This product, used according to our recommendations and for its designed application, does not represent any particular risk. The information present in this technical data sheet is indicative of the product and is given in good faith, but should not form part of any specification.

Health, Safety & Recommendations

- A Safety Data Sheet is available for consultation at www.aztecoils.co.uk.
- Packaging should not be left exposed to elements and drums should be laid horizontally to prevent contamination.
- This product should not be stored at temperatures over 60°C, kept out of direct sunlight, protected from frost and fluctuations in temperature.
- When disposing of the product after use, please protect the environment and comply with local regulations.

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