
Insulating Oil # Transformer Oil



ELECTROL[®] - U Uninhibited Transformer Insulating oils

- Description:** ELECTROL[®] U Transformer oil is severely refined hydro-cracked / hydro-treated virgin Uninhibited Mineral insulating oils with highest degree of purity and stability. ELECTROL[®] U is manufactured from judiciously selected blend of latest technology feed stocks. ELECTROL[®] U is highly suitable for all grades of Power & distribution Transformers, Circuit Breakers, Oil filled switches and X-ray equipment.
- Characteristics:** ELECTROL[®] U offer several advantageous characteristics;
- Low Pour point.
 - No DBDS
 - Non corrosive as tested by all present methods, DIN & ASTM tests & New IEC 62535 method
 - Low viscosity oils offering excellent and fast heat transfer
- Applications:** ELECTROL[®] U is highly suitable for all grades of
- Power Transformers, Distribution Transformers
 - Circuit Breakers,
 - Oil filled switches
 - X-ray equipment.
- Approvals:** ELECTROL[®] U conforms to the requirements of IS 335:1998, IEC 60296:2003 (superseding IEC 296:1982 Class I), BS 148:1998 Class I & JS 2320 Class I.
- Packaging Options:** ELECTROL[®] oil is offered in 200-210 ltr. Steel Drums & in bulk in Flexi bags or ISO tanks.
- Storage Precautions:** Extreme care is taken while packing these products, including filling of drums in inert atmosphere, as Electrical Insulating oils / Transformer oils are very sensitive to very minute concentrations of contaminants, such as moisture, particulate matter, fibres, etc. Hence, care should be taken to store ELECTROL[®] oils in a clean and dry condition. It is strongly recommended that all storage tanks / drums be maintained such that oil is not in contact with atmospheric air. Also Oils should always be stored indoors in climate controlled environments

Health & Safety: See corresponding product MSDS

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Test Description	Test Method	Specification Limits
Function		
Kinematic Viscosity, mm ² /S (Max)		
at 40 °C	BS EN ISO 3104	12.0
at -30 °C	BS EN ISO 3104	1800
Pour Point °C	BS EN ISO 3016	≤ -40
Water Content, Max mg/kg		
a) Bulk	IEC 60814	20
b) Drum		30
Break Down Voltage, Min.	BS EN 60156	
As Delivered (kv)		30
After treatment (kv)		70
Density kg/dm ³ , @ 20 °C (Max)	BS EN ISO 3675	0.895
DDF at 90 °C (Max)	IEC 60247	0.005
Refining/Stability		
Appearance	Visual	Transparent Clear, odourless liquid free from suspended impurities
Colour, Max	ASTM D 1500	0.5
Neutralization Value/Acidity, mg KOH/g (Max)	IEC 62021-1 BS 148 -1998	0.01
Interfacial tension, mN/m, Min	ISO 6295	40
Total Sulphur Content, %, Max	BS 2000 Part 373 ISO 14596	0.15 %
Corrosive Sulphur silver strip, 100°C, 18 hrs	DIN 51353	Non Corrosive
Cu strip, 150°C, 48 hrs	ASTM D1275-B	Non Corrosive
Cu strip & Paper 150°C, 72 hrs	IEC 62535:08	Non Corrosive
Anti-Oxidant Additives	IEC 60666/ BS 5984	Not detectable
2-Furfural content, mg/kg, Max	IEC & BS 61198	0.10
Performance		
Oxidation Stability, 164 hrs	IEC & BS 61125 METHOD- C & ASTM D 2440	
-Total acidity, mg KOH/g, Max		0.4
- Sludge (%) max		0.1
- DDF @ 90°C(Max)		0.5
Health, safety and environment (HSE)		
Flash Point °C, (min), PMCC	BS EN ISO 2719	135 (145°)
Polycyclic Aromatics % mass, Max	BS 2000 (P: 346)	3.00
Total PCB content mg/Kg	BS EN 61619	Not Detectable
Conforms to Standards		
IS 335:05		✓
IEC 296:82:Class I & BS 148:98 Class I		✓
IEC 60296:03(U)		✓
JS 2320 Class I		✓

The above data is indicative of recent average Values only. Minor variations, which do not affect product performance or quality, may be expected in manufacture. **Specific requirements (e.g. Custom viscosities, specific regional/tender requirements, etc) will be custom-made on request**

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