MOTOROL LUBRICANTS

PRODUCT DATA SHEET

TRANSFORMER OIL
MOTOROL BIJLEE

Introduction:

MOTOROL BIJLEE Grade Transformer Oil is manufactured from superior-base stock. This oil is further processed for eliminating all unstable compounds, moisture and other polar components to attain optimum insulating properties. It is an unused and **uninhibited** (without anti-oxidant additive) oil.

Applications:

MOTOROL BIJLEE is used in:

1. Transformers
2. Switch gears
3. Circuit breakers
4. Electrical equipments (Using oil di-electric medium)

Advantages:

- Low moisture content
- Good oxidation and chemical stability
- High di-electric valued
- Low power factor
- High flash point and low viscosity
- Low sulphur content
- Good coolant
- Good insulant medium

Performance Standard:

Conforming to IS: 335-1993 with latest amendments

Typical Specifications:

Sr. No.	Test Parameter	Tested Method	Specification
1	Appearance	IS - 335:1993	Oil will be clear and transparent and free from suspended matter or sediments
2	Density @ 29.5 °C, g/cc	IS - 1448 (P-16)	0.890 Max
3	Kinematic Viscosity @ 27 °C, cSt	IS - 1448 (P-25)	27 Max
4	Flash Point PMCC, °C	IS - 1448 (P-21)	140 Min
5	Pour Point, °C	IS - 1448, P-10	-6 Min
6	Neutralization Value	IS - 1448, P-2	
	(A) Total Acidity, mg KOH/g		0.03 Max
	(B) Inorganic Acidity/alkalinity		NIL
7	Copper strip corrosion at 140°C for 19 hrs.	IS - 335 ANNEX-B	Non Corrosive
8	Electric Strength (BDV), KV	IS - 6792	
	(A) New Unfiltered Oil,		30 KV Min
	(B) After Filtration		60 KV Min
9	Dielectric dissipation Factor (tan δ) at 90°C	IS - 6262	0.002 Max
10	Specific resistance (resistivity) (ohm-cm)	IS - 6103	
	(A) at 90°C		35×10^{12} Min
	(B) at 27°C		1500×10^{12} Min
11	Oxidation Stability 164 Hrs. at 100°C	IS - 335 ANNEX - C	
	(A) Neutralization Value after oxidation, mg KOH/g		0.4 Max
	(B) Total Sludge after oxidation, percent by weight		0.1 Max
12	Accelerated Ageing Test - 96 Hrs at 115°X	IS - 12177 METH-OD - A IS - 6103	
	(A) Specific Resistance (Resistivity)		
	(i) at 27°C		2.5×10^{12} Min
	(ii) at 90°C		0.2×10^{12} Min
	(B) Dielectric Dissipation factor (tan δ) at 90°C	IS - 6262	0.2 Max
	(C) Total acidity, mg KOH/g	IS - 1448 (P-2)	0.05 Max
	(D) Total sludge, percent by weight, percent by weight	ANNEX - A OF IS 12177	0.05 Max
13	Presence of oxidation inhibitor	IS - 13631	
	1) Phenol type		Absent
	2) Amine type		Absent
14	Water Content, ppm	IS - 13567	50 Max

Environment, Health & Safety:

Every care has been taken to ensure the accuracy of the information in this PDS. This however may be affected by subsequent improvement in product (R&D). MSDS is available for all MOTOROL products on request.

MOTOROL products are unlikely to present any health and safety hazard with proper use for the correct application and maintain proper personal hygiene. Do not Spill oils on the shop floor, discharge into drains ,ground or water sources.

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