

TOAP 335X

TOAP 335 X is an Inhibited Transformer Oil meeting Bureau of Indian Standards: IS 12463-1988 Specification.

| Sr No | Characteristics | Unit | Test Method | Guaranteed Data | |
|-------|---|-----------|---|--|-------|
| | | | | Min | Max |
| 1 | Appearance | | Representative sample of the oil shall be examined in a 100mm thick layer at 27°C | Oil shall be clear, transparent and free from suspended matter or sediment | |
| 2 | Density at 29.5°C | g/ml | IS 1448 P 16-1997 | | 0.89 |
| 3 | Kinematic Viscosity at 27°C | cSt | IS 1448 P 25-1996 | | 27 |
| 4 | Flash Point, PMCC | °C | IS 1448 P 21-1970 | 140 | |
| 5 | Pour Point | °C | IS 1448 P 10-1970 | | -6 |
| 6 | Inter Facial Tension | N/m | IS 6104-1971 | 0.04 | |
| 7 | Neutralization Value | mg KOH/gm | IS 1448 P 2-1967 | | |
| | a) Total Acidity | | | | 0.03 |
| | b) Inorganic Acidity/ Alkalinity | | | | NIL |
| 8 | Water Content | ppm | IS 13567-1992 | | 50 |
| 9 | Specific Resistance at a) at 90°C | ohm-cm | IS 6103-1971 | 35×10 ¹² | |
| | Specific Resistance at b) at 27°C | ohm-cm | | 1500×10 ¹² | |
| 10 | Breakdown Voltage | kV | IS 6792-1972 | | |
| | New Unfiltered/ After Filtrator | | | 30/60 | |
| 11 | Dielectric Dissipation Factor (Tanδ) at 90°C | | IS 6262-1971 | | 0.002 |
| 12 | Corrosive Sulphur (Copper Strip, 140°C, 19Hrs) | | IS 335 Annexure B | Non-corrosive | |
| 13 | Presence of Oxidation inhibitor | % | IS 13631-1982 | 0.3 | |
| 14 | Oxidation Stability at 100°C, 164 Hrs | | IS 335 Annexure C | | |
| | a) Total Acidity | mg KOH/gm | | | 0.4 |
| | b) Sludge | % | | | 0.1 |
| 15 | Ageing characteristics after accelerated ageing (open beaker method with copper catalyst) | | IS 12177- 1987 Method A | | |
| | Specific Resistance at 27°C | ohm-cm | | 2.5×10 ¹² | |
| | (Resistivity) at 90°C | ohm-cm | | 0.2×10 ¹² | |
| | Dielectric Dissipation Factor (Tanδ) at 90°C | | | | 0.20 |
| | Total Acidity | mg KOH/gm | | | 0.05 |
| | Total Sludge | % | | 0.05 | |
| 16 | Oxidation Stability, RBOT | Minutes | | 195 | |

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