



## POWEROIL TO 16

POWEROIL TO 16 is a specially formulated highly hydrotreated Uninhibited Transformer Oil of high flash point suitable for Pad Mounted Transformers and similar electrical equipments of severe applications.

| Sr No | Characteristics   | Unit                 | Test Method                                 | Guaranteed Data   |                |
|-------|---|----------------------|---|---|----------------|
|       |   |                      |   | Min   | Max            |
| 1     | Appearance  |                      | Simple visual examination of the oil sample | Clear and free from sediment and suspended matter   |                |
| 2     | Colour  |                      | ASTM D 1500                                 |   | 4.0            |
| 3     | Density at 15 ° C<br>at 29.5 ° C                              | kg / dm <sup>3</sup> | IS 1448 P 16 - 1997                         |   | 0.878<br>0.869 |
| 3     | Kinematic Viscosity at 100 ° C<br>at 150 ° C                  | cSt                  | IS 1448 P 25 - 1996                         |   | 16<br>6        |
| 4     | Flash Point, COC  | ° C                  | ASTM D 92                                   | 265   |                |
| 5     | Fire Point  |                      | ASTM D 92                                   | 300   |                |
| 6     | Pour Point  | ° C                  | IS 1448 P10 - 1970                          |   | - 18           |
| 7     | Inter Facial Tension  | N / m                | IS 6104 - 1971                              | 0.033   |                |
| 8     | Water Content   | ppm                  | IS 13567 - 1992                             |   | 50             |
| 9     | Specific Resistance at 50 ° C                                 | ohm - cm             | IS 6103 - 1971                              | 50 x 10 <sup>12</sup>   |                |
| 10    | Breakdown Voltage   |                      | IS 6792 - 1972                              |   |                |
|       | As delivered  | kV                   |   | 30  |                |
| 11    | Dielectric Dissipation Factor (Tan δ) at 25 ° C<br>at 100 ° C |                      | IS 6262 - 1971                              |   | 0.01<br>0.7    |
| 12    | Corrosive Sulphur Copper Strip, 140 ° C, 19 Hrs               |                      | IS 335 Annexure B                           | Non-corrosive   |                |
| 13    | Presence of Oxidation Inhibitor                               | %                    | IS 13631 - 1982                             | The oil shall not contain antioxidant additive. Value of 0.05 % max shall be treated as absence of DBPC |                |
| 14    | Oxidation Stability at 140 ° C, 24 Hrs , 250 psi              |                      |   |   |                |
|       | Sludge  | %                    |   |   | 0.06           |

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