



### POWEROIL TO 10 BS X

POWEROIL TO 10 BS X is an Inhibited Transformer Oil meeting BS 148 Class II A : 1984 Standard Specification. It also meets the ASTM D 1275 B Test requirement for Corrosive Sulphur.

| Sr No | Characteristics   | Unit                  | Test Method   | Guaranteed Data                               |         |
|-------|---|-----------------------|---|---|---------|
|       |   |                       |   | Min   | Max     |
| 1     | Appearance  |                       | Representative sample of the oil shall be examined in transmitted light under an oil depth of 100 mm at ambient temperature | Clear free from sediment and suspended matter |         |
| 2     | Density at 20 °C  | kg / dm <sup>3</sup>  | BS 4714   |   | 0.895   |
| 3     | Kinematic Viscosity at 40 °C  | mm <sup>2</sup> / sec | BS 2000 Part 71   |   | 11      |
|       | at - 30 °C  |                       |   |   | 1800    |
| 4     | Flash Point, PMCC   | °C                    | BS 2000 Part 34   | 130   |         |
| 5     | Pour Point  | °C                    | BS 2000 Part 15   |   | - 45    |
| 6     | Neutralization Value  | mg KOH/ gm            | BS 2000 Part 1  |   | 0.08    |
| 7     | Water Content , Bulk / Drum   | ppm                   | BS 6470   |   | 30 / 40 |
| 8     | Breakdown Voltage   |                       | BS 5874   |   |         |
|       | As Delivered  | kV                    |   | 30  |         |
| 9     | Dielectric Dissipation Factor (Tan δ) at 90 °C & 40 to 62 Hz                      |                       | BS 573  |   | 0.005   |
| 10    | Corrosive Sulphur<br>Copper Strip, 140 °C, 19 Hrs<br>Copper Strip, 150 °C, 48 Hrs |                       | BS 5680 : 1979<br>ASTM D 1275 B   | Non Corrosive<br>Non Corrosive                |         |
| 11    | Antioxidant Additives   | %                     | BS 5984 : 1980  | No Requirement                                |         |
| 12    | Oxidation Stability<br>at 120 °C, 164 Hrs   |                       | BS 148 : 1984 Appendix A  |   |         |
|       | Total Acidity   | mg KOH /gm            |   |   | 0.25    |
|       | Sludge  | %                     |   |   | 0.01    |
|       | at 120 °C, 500 Hrs  |                       |   |   |         |
|       | Total Acidity   | mg KOH /gm            |   |   | 1.5     |
|       | Sludge  | %                     |   |   | 1.0     |
| 13    | Gassing Tendency at 50 Hz<br>after 120 minutes                                    | mm <sup>3</sup> / min | BS 5797 Method A  |   | + 8     |

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