

## POWEROIL TO 20 X

POWEROIL TO 20 X is an inhibited Transformer Oil meeting IEC 296 Class IA: 1982 Standard Specification.

| Sr No | Characteristics   | Unit                  | Test Method  | Guaranteed Data                               |         |
|-------|---|-----------------------|--|---|---------|
|       |   |                       |  | Min   | Max     |
| 1     | Appearance  |                       | Visual inspection of oil sample in transmitted light under a thickness of 10 cm at ambient temperature | Clear free from sediment and suspended matter |         |
| 2     | Density at 20 ° C   | g /ml                 | ISO 3675   |   | 0.895   |
| 3     | Kinematic Viscosity at 40 ° C                                 | mm <sup>2</sup> / sec | ISO 3104   |   | 16.5    |
|       | at - 15 ° C   |                       |  |   | 800     |
| 4     | Flash Point, PMCC   | ° C                   | ISO 2719   | 140   |         |
| 5     | Pour Point  | ° C                   | ISO 3016   |   | - 30    |
| 6     | Inter Facial Tension at 25 ° C                                | N / m                 | ISO 6275   | 0.04  |         |
| 7     | Acidity   | mg KOH/ g             | 7.7 of IEC 296   |   | 0.03    |
| 8     | Water Content, Bulk/ Drum, IBC                                | mg / kg               | IEC 733  |   | 30 / 40 |
| 9     | Breakdown Voltage   |                       | IEC 156  |   |         |
|       | As Delivered / After Treatment                                | kV                    |  | 30 / 50                                       |         |
| 10    | Dielectric Dissipation Factor (Tan δ )at 90 ° C & 40 to 60 Hz |                       | IEC 247  |   | 0.005   |
| 11    | Corrosive Sulphur Copper Strip, 140 ° C, 19 Hrs.              |                       | ISO 5662   | Non Corrosive                                 |         |
| 12    | Anti-Oxidant additives  | %                     | IEC 666<br>( Limits given as guideline only )  | 0.15  | 0.40    |
| 13    | Oxidation Stability at 100 ° C, 164 Hrs.                      |                       | IEC 74   |   |         |
|       | Induction Period  | Hours                 | (Limits given as guideline only)   | 120   |         |