

## MOTOROL VOLTROL MBS I TRANSFORMER AND INSULATING OIL

### Introduction:

MOTOROL VOLTROL is manufactured from suitable base stock. This is further processed to attain optimum insulating properties. Product fully complies with BS : 148-1984 Class I Uninhibited Specifications.

### Typical Specifications:

CHARACTERISTICS	Test Method	MBS I
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 suspended material or sediments
Viscosity of oil (mm <sup>2</sup> /sec), Max at 40 °C at 20 °C at (-)15 °C	BS 2000 Part 71	16.5 40 800
Density of oil at 20°C (kg /dm <sup>3</sup> ), Max	BS 4714	0.895
Pour Point (°C), Max	BS 2000 Part 15	(-)30
Neutralization Value (mgKOH/gm), Max	BS 2000 Part1	0.03
Water Content (Bulk/Drum) (ppm), Max	BS 6470	30/40
Break down Voltage As Delivered (kV), Min	BS 5874	30
Corrosive Sulphur Copper Strip, 140 °C, 19 Hrs	BS 5680 : 1979	Non Corrosive
Dielectric Dissipation Factor (Tan δ ) at 90°C & 40 to 62 Hz	BS 573	0.005
Antioxidant Additives	BS 5984 : 1980	No Requirement
Flash point, PMCC, Min	BS 2000 Part 34	140
Gassing Tendency at 50 Hz after 120 minutes (mm <sup>3</sup> /min)	BS 5797 Method A	+5
Oxidation Stability at 120°C, 164 Hrs Total Acidity (mgKOH/gm) Sludge (%)	BS 148	0.25 0.01
Oxidation Stability @120°C, 500 Hrs Total Acidity (mgKOH/gm) Sludge (%)	BS 148:1984 Appendix A	1.5 1

### 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.