

|    |  |  |                             |               |
|----|--|--|-----------------------------|---------------|
| 9  | Electric strength (break down voltage) with 2.5mm gap                                      |  |                             |               |
| a) | New filtered oil Min   | 30 KV (rms)                                      | IS 6792                     |               |
| b) | After filtration Min   | 70 KV (rms)                                      |                             |               |
| 10 | Dielectric dissipation factor tan(d) at 90 degC<br>Max                                     |  | 0.002                       |               |
| 11 | Specific resistance (Resistivity)  |  |                             |               |
| a) | At 90 degC Min   | 35 x 10 <sup>12</sup> ohm-cm                     | IS 6103                     |               |
| b) | at 27 degC Min   | 1.500 x 10 <sup>12</sup> ohm-cm                  |                             |               |
| 12 | Oxidation stability  |  |                             |               |
| a) | Neutalisation value after oxidation Max  | 0.2 mg KOH/g                                     |                             |               |
| b) | Total Sludge after oxidation Max   | 0.06 percent by weight                           | As per IS 335               |               |
| 13 | Ageing characteristics after accelerated ageing (open breaker method with copper catalyst) |  | As per IS 12177<br>method A |               |
| a) | Specific resistance (Resistivity)  |  |                             |               |
| 1) | at 27 degC Min   | 2.5 x 10 <sup>12</sup> ohm-cm                    |                             |               |
| 2) | At 90 degC Min   | 0.2 x 10 <sup>12</sup> ohm-cm                    |                             |               |
| b) | Dielectric dissipation factor tan(d) at 90 degC<br>Max                                     |  | 0.2                         | IS 6262       |
| c) | Total acidity Max  | 0.05 mg KOH/g                                    |                             | IS 1448 (P:2) |
| d) | Total Sludge Max   | 0.03% by weight                                  |                             | IS 12177      |
| 14 | Presence of oxidation inhibitor  | The oil shall not contain anti oxidant additives |                             | IS 13631      |
| 15 | Water content Max  | 30 ppm in bul , 40 ppm in drum                   |                             | IS 13567      |
| 16 | SK value   | 4-8%   |                             | IS 335        |
| 17 | PONA Analysis  |  |                             |               |
| a) | Paraffins  | 48-52%   |                             |               |
| b) | Oloffins   | Nil  |                             |               |
| c) | Nepthen  | 38-42%   |                             |               |
| d) | Aromatic   | 8-10%  |                             |               |

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