

PRODUCT DATA SHEET

SERVOELECTRA (TRANSFORMER OIL)



DESCRIPTION

Servoelectra is a high quality un-inhibited insulating oil developed for the use in electrical transformers & circuit breakers. It is manufactured through special refining process selecting optimum types of hydrocarbons so that finished transformer oil provides longer service life. It does not contain Poly-Chlorinated Bi-phenyls (PCBs).

PERFORMANCE BENEFITS

High di-electric strength

- ❖ High Flash point
- ❖ Superior Interfacial Tension (IFT)
- ❖ Superior TAN delta & Resistivity (Sp. Resistance)
- ❖ Resists oxidation & deposit formation
- ❖ Compatible with materials used in transformers
- ❖ Superior electrical properties ensuring safety around high voltage equipment

APPLICATION

Servoelectra is recommended for use in all types of oil-filled transformers such as in applications of power generation, transmission & distribution. It can also be used in both large substations or small pole mounted transformers. It is suitable for use in circuit breakers, switches and any other oil immersed electrical equipment.

In order to maintain a high di-electric strength, the oil must be kept in clean & dry condition.

PERFORMANCE STANDARDS / CERTIFICATION

- ❖ Servoelectra meets the requirements of IS 335 – 1993 of un-inhibited transformer oil.
- ❖ Servoelectra has been evaluated & certified by Central power Research Institute (CPRI), Muradnagar.

CHARACTERISTICS

GRADE	Servoelectra (Typical)	IS 335 – 1993
Kinematic Viscosity, cSt @ 27°C @ 40°C	27 Max 9.5 – 14.5	27 (Max)
Interfacial tension, N/m	0.052	0.040 (Min)
Flash point, °C, Min	140	140 (Min)
Corrosive sulphur,	Non-corrosive	Non-corrosive
Break down voltage, kV after filtration, Min	60	30 (Min)
Sp. Resistance, x 10 ¹² , ohm-cm @ 27°C, Min @ 90°C, Min	1500 35	1500 (Min) 35 (Min)
Di-electric dissipation factor, (TAN delta), @ 90°C, Max	0.002	0.002 (Max)

HEALTH & SAFETY

These oils are unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of industrial and personal hygiene are maintained.

For further information please contact our nearest office OR:

Technical Services Dept., Indian Oil Corporation Ltd., G-9, Ali Yavar Jung Marg, Bandra (East), Mumbai - 400 051

E-Mail: servotechserv@indianoil.in **OR** servots@indianoil.in

May-20