

# Product Data Sheet

## Servoelectra

Un-inhibited 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, Features and 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.

### Approvals/ Performance Standards/Recommendations

Servoelectra meets the requirements of IS 335 – 2018 Type II of un-inhibited transformer oil. Servoelectra has been evaluated & certified by Central Power Research Institute (CPRI), Muradnagar / Central Power Research Institute (CPRI) Bangalore.

### Typical Physical Characteristics

Parameters	Method	Servoelectra	IS 335 –2018
Kinematic Viscosity, cSt @ 40°C	ASTM D-445	13.35	15 (Max)
Interfacial tension, N/m	ASTM D-971	0.051	0.040 (Min)
Flash point, °C	ASTM D-93	174	135 (Min)
Corrosive sulphur	ASTM D-1275	Non-corrosive	Non-corrosive
Break down voltage, kV after filtration	ASTM D-1816	60	30 (Min)
Di-electric dissipation factor, (TAN delta), @ 90°C	ASTM D 924	0.0006	0.005 (Max)

### Health, Safety & Environment

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or at <https://cx.indianoil.in/>. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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For further information, please contact our nearest office or:

Technical Services Department,  
Indian Oil Corporation Ltd.,  
G-9, Ali Yavar Jung Marg, Bandra (E),  
Mumbai – 400051

E-Mail: [servotechserv@indianoil.in](mailto:servotechserv@indianoil.in) or  
[servots@indianoil.in](mailto:servots@indianoil.in) | <https://cx.indianoil.in/>