



## ADROL TRANSFORMER OIL

### DESCRIPTION

**ADROL TRANSFORMER OIL** is designed for human safety and free from carcinogenic Poly chlorinated Bi-phenyls (PCB) and Poly aromatic hydrocarbon (PAH).

### APPLICATIONS

Transformer oil is recommended for oil filled power and distribution transformers, rectifiers, circuit breakers and switchgears where an uninhibited transformed oil or dielectric fluid is specified. It will dissipate heat, insulate windings and quench the spark between the opening contacts when tap changing.

### PERFORMANCE STANDARDS

ADROL TRANSFORMER OIL exceeds IS: 335:1993 (Reaffirmed 2005) performance levels. It also meets IS:335-2018 TYPE II UNINHIBITED.

### BENEFITS

- Electric transformers.
- Switch gears.
- Circuit breakers which require insulating fluids.
- Has very high oxidation stability.
- Excellent ageing properties resulting in long product life.

### KEY PROPERTIES

Appearance	Clear & Transparent and free from sullied matters from sediments.
Density, @29.5, °C ( g/cc)	0.8279
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Kinematic Viscosity @40°C (mm <sup>2</sup> /s)	11
<b>AGEING CHARACTERISTICS AFTER AGEING</b>	
Interfacial Tension @ 27°C	0.044 N/m
Pour Point (°C)	-18
Flash Point (°C, COC)	172
Corrosive Sulphur	Non Corrosive
Neutralization Value	
a) Total Acidity	Nil
b) Inorganic Acidity/alkalinity	Nil
Electric strength (breakdown voltage) –kV(rms)	
a) New unfiltered oil	72
Dielectric dissipation actor @ 90°C	0.00025
Specific Resistance (resistivity)	
a) A:90°C	750x10 <sup>12</sup> ohm-cm
b) A:27°C	11300x10 <sup>12</sup> ohm-cm
Oxidation stability	
a) Neutralization value after oxidation, mg KOH/g 0.4	0.4
b) Total sludge after oxidation,% by wt.	0.1

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Open breaker method with copper characteristics	
Specific resistance (resistivity) a) A:27 °C b) A:90 °C c) dielectric dissipation factor at 90 °C d) total acidity e) total sludge	350x10 <sup>12</sup> ohm-cm 19x10 <sup>12</sup> ohm-cm 0.0025/2.08 DC Nil Nil
Presence of oxidation inhibitor,% by wt	Absent
Water content, mg/kg(ppm)	50
SK value (%)	1

\*Test results are based on samples.

