



# AVYOL HYPOWER Transformer Oils

## (IEC 60296 & IS 335 Grades)

Avyol HYPOWER transformer oils are built to guard transformers with clean insulation, steady cooling, and lasting protection. Meeting the toughest standards of IEC 60296 and IS 335, each grade resists breakdown and keeps power flowing. With low moisture, low acidity, and high dielectric strength, our oils secure your electrical assets over time.

### Product Variants

- Avyol HYPOWER 60296 U – Uninhibited, IEC 60296 Type B. Ideal for standard performance needs.
- Avyol HYPOWER 60296 A – Inhibited, IEC 60296 Type A. Enhanced oxidation stability with additives.
- Avyol HYPOWER 335 U – Uninhibited, IS 335 Type I. Suited for Indian grid environments.
- Avyol HYPOWER 335 A – Inhibited, IS 335 Type I. Superior protection with inhibitor-based stability.



### Oxidation Stability Highlights

- Uninhibited grades (60296 U / 335 U): Meet standard oxidation resistance, tested under 164-hour conditions as per IEC/IS norms.
- Inhibited grades (60296 A / 335 A): Feature added antioxidants for extended longevity; typically tested for oxidation resistance up to 332-500 hours, delivering stronger defense against sludge and acid formation.

### Typical Specifications (All Variants)

Property	Value / Limit	Test Standard
Appearance	Clear, free from sediment	Visual
Kinematic Viscosity at 40 °C	≤ 12 mm <sup>2</sup> /s	IS 1448 / ISO 3104
Density at 20 °C	≤ 0.895 kg/dm <sup>3</sup>	IS 1448 / ISO 3675
Flash Point (PMCC)	≥ 140 °C	IS 1448
Pour Point	≤ -40 °C	IS 1448
Breakdown Voltage	≥ 30 kV (delivered)	IS 6792
Water Content	≤ 30 mg/kg	IEC 60814
Dielectric Dissipation Factor @ 90 °C	≤ 0.005	IS 6262 / IEC 60247
Total Acidity	≤ 0.01 mg KOH/g	IS 1448 / IEC 62021

