

# DIVYOL NATURAL ESTER BASED TRANSFORMER OIL – IS16659:2017 / IEC 62770:2013

Divyol Natural Ester based Transformer Oil is specially manufactured from carefully selected new generation base oil, possessing excellent electrical properties and conforming to IEC 62770:2013.

Sr. No.	Characteristics	Test Method	IEC 62770 Limits	Typical Values
<b>Physical properties</b>				
1	Appearance		Clear, free from sediment and suspended matter	Clear, free from sediment and suspended matter
2	Viscosity at 100 °C	ISO 3104	≤ 15 cSt	7.20 – 8.60
3	Viscosity at 40 °C	ISO 3104	≤ 50 cSt	32.38 – 34.50
4	Pour point	ISO 3016	≤ -10 °C	-14 – 18
5	Water content	IEC 60814	≤ 200 mg/kg	153
6	Density at 20 °C	ISO 3675 or ISO 12185	≤ 1000 kg/m <sup>3</sup>	0.916
7	Flash point (pmcc)	ISO 2592	≥ 250 °C	> 290
8	Fire point	ISO 2719	≥ 300 °C	> 340
<b>Electrical properties</b>				
9	Dielectric breakdown voltage	IEC 60156 (2.5 mm gap)	> 35 kV at Delivery	> 70
10	DDF at 90 °C	IEC 60247	≤ 0.05	0.0050 – 0.0054
<b>Chemical properties</b>				
11	Soluble acidity	IEC 62021-3	≤ 0.06 mg KOH/g	0.020 – 0.026
12	Corrosive sulfur DBDS	IEC 62535 / ASTM D 1275B IEC 62697-1	Non-corrosive below detection limit	Non-corrosive Not detected
13	Total additives	IEC 60666 or other suitable methods	≤ 5%	0.1 – 0.2
14	Total acidity	1.9.4 of IEC 61125:1992	≤ 0.6 mg KOH/g	0.11 – 0.16
15	Viscosity at 40 °C	ISO 3104	≤ 30% increase over initial value	18.18 – 19.36
16	DDF at 90 °C	IEC 60247	≤ 0.5	0.04 – 0.06
17	Biodegradation	US EPA OECD 301 B, C or F US EPA OPPTS 835.311	Readily biodegradable	Readily biodegradable

Disclaimer: GANDHAR OIL makes no warranties, representation or conditions of any kind expressed or implied for use with respect to these products. Final determination of suitability of the products for the application contemplated by the user is solely their responsibility.