

Divyol TO - 335
Divyol TO – 335 is an Uninhibited Transformer Oil as per IS-335:1993 reaffirmed 2010 :

Sr. No.	Characteristics	Unit	Test Method	Specification
1	Appearance		A Representative sample of the oil shall be examined in a 100 mm thick layer at 27 °C	The Oil shall be clear, transparent and free from suspended matter or sediments
2	Density at 29.5°C (Max)	g / ml	IS 1448 P 16 - 1997	0.89
3	Kinematic Viscosity at 27 °C (Max)	cSt	IS 1448 P 25 - 1996	27
4	Inter Facial tension at 27 °C (Min)	N / m	IS 6104 - 1971	0.04
5	Flash Point, PMCC (Min)	°C	IS 1448 P 21 - 1970	140
6	Pour Point (Max)	°C	IS 1448 P 10 - 1970	-6
7	Neutralization Value	mg KOH/ gm	IS 1448 P 2 - 1967	
	a) Total Acidity (Max)			0.03
	b) Inorganic Acidity/Alkalinity			Nil
8	Corrosive Sulphur Copper Strip, 140 °C, 19 hrs.		IS 335 Annexure B	Non-corrosive
9	Electric Strength Breakdown Voltage (BDV)		IS 6792 - 1972	
	a) New unfiltered oil (Min)	kV		30
	b) After Filtration (Min)	kV		60
10	Dielectric Dissipation Factor tan Delta at 90 °C (Max)		IS 6262 - 1971	0.002
11	Specific Resistance (Resistivity)		IS 6103 - 1971	
	a) at 90 °C (Min)	ohm - cm		35×10^{12}
	b) at 27 °C (Min)	ohm - cm		1500×10^{12}
12	Oxidation Stability at 100 °C, for 164 hrs.		IS 335 Annexure C	
	a) Total Acidity (Max)	mg KOH/		0.4
	b) Total Sludge (Max)	%		0.1
13	Ageing characteristics after accelerated ageing (open beaker method with copper catalyst)		IS 12177 – 1987 Method A	
	a) Specific Resistance (Resistivity)			
	at 27 °C (Min)	ohm - cm		2.5×10^{12}
	at 90 °C (Min)	ohm - cm		0.2×10^{12}
	b) Dielectric Dissipation Factor tan at 90 °C (Max)			0.20
	c) Total Acidity (Max)	mg KOH/		0.05
	d) Total Sludge (Max)	%		0.05
14	Presence of Oxidation Inhibitor (Max)	%	IS 13631 – 1982	The oil shall not contain antioxidant additive. Value of 0.05% max will be treated as absence of DBPC
15	Water Content (Max)	ppm	IS 13567 – 1992	50

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