

DIVYOL TRANS 41 – STANDARD TRANSFORMER OIL – IEC 60296:2020 – INHIBITED

Divyol Trans 41 is a highly hydro-treated paraffinic based Inhibited Transformer Oil with higher oxidation stability and lower sulphur content. It is specially manufactured from carefully selected new generation base oil, possessing excellent electrical properties and conforming to IEC 60296:2020 edition 5.0 Standard Table 3 general specifications. It also meets the ASTM D 1275 test requirements for corrosive sulphur.

Sr. No.	Characteristics	Unit	Test Method	Guaranteed Data	
				Minimum	Maximum
1	Appearance		Visual inspection of oil sample in transmitted light under a thickness of 10 cm at ambient temperature	Clear, free from sediment and suspended matter	
2	Colour		ISO 2049		0.5
3	Density at 20 °C	g/ml	ISO 3675 or IEC 12185		0.895
4	Kinematic viscosity at 40 °C	mm ² /sec	ISO 3104 or ASTM D 7042		12
	Kinematic viscosity at -30 °C				1800
5	Flash point, pmcc	°C	ISO 2719	135	
6	Pour point	°C	ISO 3016		-40
7	Interfacial tension at 25 °C	mN/m	ASTM D 971	43	
8	Acidity	mg KOH/g	IEC 62021-1 / IEC 62021-2		0.01
9	Water content, bulk/drum, IBC	mg/kg	IEC 60814		30/40
10	Breakdown voltage		IEC 60156		
	As delivered/after treatment	kV		30/70	
11	Dielectric dissipation factor (Tan δ) at 90 °C & 40 to 60 Hz		IEC 60247 or IEC 61620		0.005
12	Corrosive sulphur Silver strip, 100 °C, 18 hrs. Copper strip, 150 °C, 48 hrs.		DIN 51353 ASTM D 1275	Not corrosive Not corrosive	
13	Potentially corrosive sulphur		IEC 62535	Not corrosive	
14	Total sulphur content	%	ISO 14596 or ISO 8754		0.05
15	DBDS	mg/kg	IEC 62697-1	Not Detectable (< 5 mg/kg)	
16	Inhibitors according IEC 60666	%	IEC 60666	(I) Inhibited Oil (0.08 % – 0.4 %)	
17	Metal passivator additives	mg/kg	IEC 60666	Not detectable (< 5 mg / kg)	
18	Other additives			Does not contain any additives other than antioxidant additive	
19	Oxidation stability at 120 °C, 500 hrs.		IEC 61125 Method C		
	Total acidity	mg KOH/g	4.8.4 of IEC 61125:2018		0.3
	Sludge	%	4.8.1 of IEC 61125:2018		0.05
	DDF at 90 °C		4.8.5 of IEC 61125:2018		0.05
20	PCA content	%	IP 346		<3
21	PCB content	mg/kg	IEC 61619	Not detectable (< 2mg/kg)	
22	2-Furfural and related compounds content	mg/kg	IEC 61198	Not detectable (< 0.05 mg/kg) for each individual compound	
23	Stray Gassing under thermo-oxidative stress Hydrogen (H ₂) Methane (CH ₄) Ethane (C ₂ H ₆)	µl/l µl/l µl/l	Procedure in clause A.4 (oil saturated with air) in the presence of copper	Non-stray gassing (< 50) Non-stray gassing (< 50) Non-stray gassing (< 50)	

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