

DIVYOL TRANS 56 – PREMIUM TRANSFORMER OIL – IEC 60296:2012 – UNINHIBITED

Divyol Trans 56 is an Uninhibited Naphthenic Mineral Insulating Oils specially made for transformers as per IEC 60296:2012. It is specially manufactured from carefully selected new generation naphthenic base oil, possessing excellent electrical properties.

Sr. No.	Characteristics	Unit	Test Method	Limits
1	Appearance	-	IEC 60296:2012	Clear, transparent, free from sediment and suspended matter
2	Density at 20 °C	gm/ml	ISO 3675 / IEC 12185	max. 0.895
3	Density at 29.5 °C	gm/ml	ISO 3675 / IEC 12185	-
4	Kinematic viscosity at 40 °C	mm ² /s	ISO 3104	max..12
5	Kinematic viscosity at -30 °C	mm ² /s	ISO 3104	max. 1800
6	Pour point	°C	ISO 3016	max. - 40
7	Water content	mg/Kg	IEC 60814:1997	max. 30a/40b
8	Breakdown voltage	KV	IEC 60156:1995 IEC 156 / BS 5874	min. 70
	After processing in lab/filling station prior to drumming.			
	As delivered in 210 Ltrs. capacity drums and before treatment			min. 30
9	Dielectric dissipation factor (40 Hz to 60 Hz): at 90 °C	tan Delta	IEC 60247:1978 IEC 61620	max. 0.005 max. 0.005
10	Acidity	mg KOH/g	IEC 62021 - 1 / 296	max. 0.01
11	Interfacial tension	mN/M	EN 14210 / ASTM D 971 / ISO 6295	min. 40
12	Corrosive sulphur	-	DIN 51353 / ISO 5662	Non-corrosive
	Corrosive sulphur	-	ASTM D 12758	Non-corrosive
13*	Potentially corrosive sulphur		IEC 62535	Non-corrosive
14*	DBDS (Dibenzylsulphide)	mg/kg	IEC 62697	Not detectable
15*	Total sulphur content	%	IP373 or ISO 14596	No general requirement
16	Presence of oxidation inhibitor	%	IEC 60666	< 0.01 % or not detectable
17*	Metal passivator additives	mg/kg	IEC 60666	Not detectable
18*	2-Furfural and related compounds content	mg/kg	IEC 61198	Not detectable
19	Oxidation stability at 120 °C for 164 hrs.			
	Total acidity	mg KOH/g	IEC 61125:1992	max. 1.2
	Sludge	% Wt	Method C	max. 0.8
	Dielectric dissipation factor at 90 °C			max. 0.5
20	Flash point, pmcc	°C	ISO 2719	min. 135
21*	Stray gassing	-	IEC 60296	No general requirement
22*	ECT		IEC 60296	No general requirement
23	Particle content	-	IEC 60970	No general requirement
24	Gassing tendency	-	IEC 60628 Method A	No general requirement
25*	Polycyclic aromatic content (DMSO)	% Wt	IP 346	max. 3.0
26*	PCB content	mg/Kg	IEC 61619:1997	Not detectable
27*	Carbon Type Analysis			
	1) CA	%	FTIR	4 to 11
	2) CP	%	FTIR	max. 50
	3) CN	%	FTIR	min. 42

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