

DIVYOL TRANS 10 (IR) TRANSFORMER OIL – IEC 60296:2020 – INHIBITED

Divyol Trans 10 is an Inhibited Transformer Oil for railways, approved by RDSO and meeting the IEC 60296:2020 (CLW specifications) edition 5.0 Standard Table-3 general specifications. It possesses excellent electrical properties and 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		1.5
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	40	
8	Acidity	mg KOH/g	IEC 62021-1 or 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 and 40 – 60 Hz		IEC 60247 / 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	DBDS	mg/kg	IEC 62697-1	Not detectable (< 5 mg/kg)	
15	Inhibitors according to IEC 60666	%	IEC 60666	(I) Inhibited oil (0.08% to 0.40%)	
16	Metal passivator additives according to IEC 60666	mg/kg	IEC 60666	Not detectable (< 5 mg/kg)	
17	Other additives			Does not contain any additives other than anti-oxidant additive	
18	Oxidation stability at 120 °C, 500 hrs.		IEC 61125 Method C		
	Total acidity	mg KOH/g	4.8.4 of IEC 61125:2018		1.2
	Sludge	%	4.8.1 of IEC 61125:2018		0.8
	DDF at 90 °C		4.8.5 of IEC 61125:2018		0.5
19	PCA content	%	IP 346		3
20	PCB content	mg/kg	IEC 61619	Not detectable (< 2mg/kg)	
21	2-Furfural and related compounds content	mg/kg	IEC 61198	Not detectable (< 0.05 mg/kg) for each individual compound	

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