

# DIVYOL TRANS 20 AND 21 – STANDARD & PREMIUM TRANSFORMER OIL – IEC 296:82 CLASS I A & II A – INHIBITED

Divyol Trans 20 and 21 are Transformer Oils specially manufactured from carefully selected new generation base oils, possessing excellent electrical properties and conforming to specifications of IEC 296 - 1982 Class I and Class II Inhibited type. They also meet the ASTM D 1275 B test requirements for corrosive sulphur.

Sr. No.	Characteristics	Unit	Test Method	Specification of Divyol Trans 20 IC 296-I (IEC 296 Class I)	Specification of Divyol Trans 21 IC 296-II (IEC 296 Class II)
				Standard	Premium
1	Appearance		Representative sample of the oil shall be examined in transmitted light under a thickness of 10 cm at ambient temperature	Clear, free from sediment and suspended matter	Clear, free from sediment and suspended matter
2	Density at 20 °C max.	kg/dm <sup>3</sup>	ISO 3675	0.895	0.895
3	Kinematic viscosity	mm <sup>2</sup> /sec	ISO 3104		
	a) at 40 °C max.			11	11
	b) at -30 °C max.			No general requirement	1800
	c) at -15 °C max.			800	No general requirement
4	Flash point, pmcc min.	°C	ISO 2719	140	140
5	Interfacial tension at 25 °C min.	N/m	ISO 6275	0.04	0.04
6	Electric strength breakdown voltage (BDV)		IEC 156		
	a) As delivered min.	kV		30	30
	b) After treatment min.	kV		50	50
7	Dielectric dissipation factor max. tan Delta at 90 °C and 40 – 62 Hz		IEC 247	0.005	0.005
8	Corrosive sulphur copper strip, at 140 °C, for 19 hrs. copper strip, at 150 °C, for 48 hrs.		ISO 5662 ASTM D 1275 B	Non corrosive No general requirement	Non-corrosive
9	Anti oxidant additives	%	IEC 666 (Limit given as guideline only)	0.15 min – 0.40 max	
10	Oxidation stability at 100 °C, for 164 hrs.		IEC 74		
	Induction period	Hours	(Limit given as guideline only)	120	
11	Pour point max.	°C	ISO 3016	-30	-45
12	Neutralisation value max.	mg KOH/g	7.7 of IEC 296	0.03	0.03
13	Water content	ppm	IEC 733		
	a) Bulk max.			30	30
	b) Drum max.			40	40

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