



GLOBALSYNTH

GLOBALSYNTH LUBRICANTS PVT LTD

An ISO 9001 : 2015 CERTIFIED COMPANY

*Heat Transfer Fluid
for power transformer*



Industrial Lubricant technology expert

CIN - U23209DL2021PTC382265



GLOBALSYNTH TRANS 50

High Performance Transformer OIL

Globalsynth Trans 50 Transformer Oil is an oil that is stable at high temperatures and has excellent electrical insulating properties. It is used in oil-filled transformers, some types of high-voltage capacitors, fluorescent lamp ballasts, and some types of high-voltage switches and circuit breakers. Its functions are to insulate, suppress corona discharge and arcing, and to serve as a coolant.

Globalsynth Trans 50 Transformer Oil is most often based on mineral oil.

Globalsynth Trans 50 manufactures Transformer Oils that meet the following standards:

- ◆ IS 335:1993
- ◆ IEC 296 Class I & II
- ◆ IEC 60296
- ◆ BS148 Grade I & II
- ◆ Features and Benefits
- ◆ High dielectric strength fluid.
- ◆ High flash point & high temperature stability
- ◆ Low Viscosity change, Low Volatility
- ◆ High thermal oxidation resistance
- ◆ Low toxicity
- ◆ Compatible with most existing transformer insulation systems
- ◆ Longer service life than conventional transformer oils



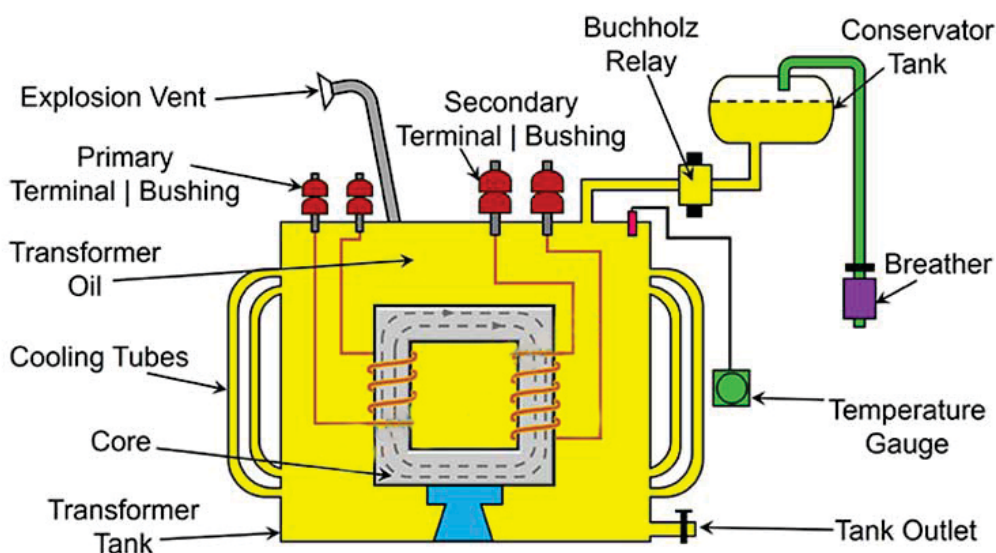
TECHNICAL SPECIFICATION

“GLOBALSYNTH TRANS 50” TYPE – II

Sr. No.	Property of Transformer Oil	Requirement as per IS: 335:2018/5th Revision
1	Grade	Type – II Uninhibited
(A)	Function :	
2	Viscosity at 40°C (mm ² /s) (Max)	15
3	Viscosity at -30°C (mm ² /s) (Max)	1800
4	Pour Point (°C) (Max) to be based on LCSET – Refer Table -1 below)	-10 (Note-1)
5	Water Content (mg /kg) (Max)	30 (Note-3) / 40 (Note-4)
6	Breakdown Voltage (kv) (min)	30 / 70 (Note – 5)
7	Density at 20°C (g/ml) (Max)	0.895
8	DDF at 90°C (max)	0.005
9	Particle Content	No general requirement (note No.10)
(B)	Refining / Stability	
10	Appearance	The oil shall be clear transparent & free from suspended matter and sediments
11	Acidity (mg KOH/g) (Max)	0.01
12	Interfacial Tension(mN/m) (Min)	No general requirement, 40 (As per Note – 6)
13	Total Sulphur Content	No general requirement (Note – 12)
14	Corrosive Sulphur	Not Corrosive
15	Potentially Corrosive Sulphur	Not Corrosive
16	DBDS (mg / kg)	Not detectable, < 5
17	Inhibitor according to IS 13631 / IEC 60666	(U) Uninhibited Oil: Not detectable (<0.01%)
18	Metal Passivator additives inhibitors according to IS 13631 / IEC 60666	Not detectable, (<5 mg/kg) or as agreed upon with the purchase
19	Other additives	Note – 7
20	2-Furfural and related compounds contents	Not detectable (<5 mg/kg) for each individual compound



(C) Performance:		
21	Oxidation Stability – Test duration (Note-11) for (U) Uninhibited oil : 164 Hrs.	For oils with other antioxidant additives and metal passivator additives – Cl. 6.12 of IS:335:2018
	(a) Total Acidity (Note-9) (mg KOH/g)(Max)	1.2
	(b) Sludge (Note-9) (%) (Max)	0.8
	(c) DDF at 90°C (Note-9) (Max)	0.500 (Note-9)
22	Gassing Tendency	No general requirement (Note-12)
23	ECT – Cl. 6.14 of IS:335:2018	No general requirement (Note-12)
(D) Health, Safety and Environment (HSE)		
24	Flash Point (°C) (Min)	135
25	25 PCA Content (%) (Max)	3



Construction of Transformer



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