

مصنع دانة لوبريكانتس (ذ م م) DANA LUBRICANTS FACTORY L.L.C

(A Division of DANA Group)



ISO9001:2015

Registered company by IIC (No: JU- 1306)

DANA TRANSFORMER OIL

Product Description:

Dana Transformer Oils are electrical insulating oils produced by distillation of virgin paraffinic crude oil followed by modern technologies involving high pressure hydrogenation and hydro-treatment. All the processes are monitored closely, and appropriate Base Oil fractions are selected for further processing. Further processing involves removal of moisture and polar impurities to obtain good electrical properties. The technologies result in products with very low pour point, excellent oxidation stability, cooling characteristics and electrical properties. These properties make them suitable for the most demanding transformer applications

Benefits:

- Excellent oxidation stability
- Excellent low temperature performance
- Excellent cooling properties
- High dielectric strength for electrical insulation

Applications:

Dana Transformer Oil is recommended for oil filled power and distribution transformers, rectifiers, circuit breakers and switchgears where an uninhibited transformed oil or dielectric fluid is specified. It will dissipate heat, insulate windings and quench the spark between the opening contacts when tap changing

Performance Level :

IEC 60296 Edition 4.0
DIN 51353
BS 148 Class I & II
ASTM D3487 Type I

IEC 62535
ASTM D1275 Method B
AS 1767-1975



P.O. Box No. 40743, Ajman, UAE Tel: +97142217273 Fax: +97142215940

EMAIL: danalubes@danagroups.com, www.danalubes.com

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DANA Transformer Oil has a very high di-electric strength which exceeds the requirements of IEC (International Electrotechnical Commission) 296 Class-1 (Uninhibited) and BS (British Standard) 148 Class-1 transformer oil standards.

Typical Test Data:

S.N O	TEST DESCRIPTION	TEST METHOD	IEC60296:2012 Uninhibited	IEC 60296 : 2012 T Trace Inhibited	IEC 60296 : 2012 Inhibited
1	Viscosity @ 40°C, mm ² /s	ISO 3104	12	12	12
2	Viscosity @ -30°C, mm ² /s	ISO 3104	1800	1800	1800
3	Pour Point, °C	ISO 3016	-40	-40	-40
4	Water content mg/kg, Bulk/Drum	IEC 60814	30/40	30/40	30/40
6	As delivered / After Treatment		30/70	30/70	30/70
7	Density @ 20°C, g/ml	ISO 3675 or ISO 12185	0.895	0.895	0.895
8	DDF @ 90°C	IEC 60247 or IEC 61620	0.005	0.005	0.005
9	Acidity, mg.KOH/g	IEC 62021-1 or 62021-2	0.01	0.01	0.01
10	Corrosive Sulphur	DIN 51353	Not Corrosive	Not Corrosive	Not Corrosive
11	Potentially Corrosive Sulphur	IEC 62535	Not Corrosive	Not Corrosive	Not Corrosive
12	DBDC (mg/kg)	IEC 62697-1	Not Detectable <5	Not Detectable <5	Not Detectable <5
13	Inhibitor of IEC 60666	IEC 60666	Not Detectable <0.01%	T Trace Inhibitor <0.08%	(I) Inhibited oil- 0.08% - 40°C
14	Metal Passivator Additives	IEC 60666	Not Detectable <5	Not Detectable <5	Not Detectable <5
15	2-Furfural & Related	IEC 61198	Not Detectable <0.05	Not Detectable <0.05	Not Detectable <0.05
16	Total Acidity, mg.KOH/g	1.9.4. of IEC 61125:1992	1.2	1.2	1.2
17	Sludge,%	1.9.1. of IEC 61125:1992	0.8	0.8	0.8
18	DDF @ 90°	1.9.6. of IEC 61125:2004	0.5	0.5	0.5



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19	Flash Point, °C	ISO 2719	135	135	135
20	PCA Content, %	IP 346	3	3	3
21	PCB content, mg/kg	IEC 61619	Not Detectable <2	Not Detectable <2	Not Detectable <2

Dana Transformer Oil has excellent electrical and Oxidation stability properties. It is specially manufactured from highly refined base oils. The product fully complies with IEC 60296 2012 (I) Edition 4.0 specifications.



FOR DANA LUBRICANTS FACTORY LLC



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