

مصنع دانة لوبريكانتس (ذ م م)

DANA LUBRICANTS FACTORY L.L.C

(A Division of DANA Group)



ISO 9001:2015 & ISO 14001:2015 & ISO 45001:2018

Registered company by LLC (No: AJU-1116 & AJU-5046 & AJU-3057)

TECHNICAL DATA SHEET

DANA UNINHIBITED NAPHTHENIC TRANSFORMER OIL

Performance Standards:

It meets the Dana Naphthenic Uninhibited transformer oil specification IEC 60296.

Product Specifications:

CHARACTERISTICS	TEST METHOD	SPECIFICATION
1-Function:		
Colour	ASTM D 1500	--
Kinematic Viscosity @40 °C mm ² /sec @ (-) 30°C mm ² /sec	ISO 3104	Max. 12
	ISO 3104	Max. 1800
Pour Point °C	ISO 3016	Max. (-) 40
Water Content (PPM)	IEC 60814	Max. 30 mg/kg for bulk supply Max. 40 mg/kg for supply in Drum
Breakdown Voltage	IEC 60156	Min. 30 kV as delivered Min. 70 kV after lab treatment
Density @20°C KG/dm ³	ISO 3675 OR ISO 12185	TBR
Density @29.5C KG/dm ³	ISO 3675 OR ISO 12185	---
Dielectric Dissipation Factor @ 90°C & 40 to 60 Hz	IEC 60247 OR IEC 61620	Max. 0.005
Particle Content	ISO 60970	No General Requirement
2-Refining/ Stability:		
Appearance	VISUAL	Clear, free from sediment & Suspended matter
Acidity	IEC 62021-1 OR IEC62021-2	Max. 0.01 mg KOH/gm
Inter Facial Tension MN/m	EN 14210 OR ASTM D971	Min. 40
Total Sulphur Content	IP 373 OR ISO 14596	No General Requirement
Corrosive Sulphur	DIN 51353	Non Corrosive



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OEM CERTIFICATIONS*
*available



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Potentially Corrosive Sulphur	IEC 62535	Non Corrosive
DBDS(Dibenzylsulphide) mg/kg	IEC 62697	Not Detectable(<5mg/kg)
Inhibitors of IEC 60666	IEC 60666	(U) Uninhibited Oil; Not Detectable (<0.01%)
Metal Passivator Additives mg/kg	IEC 60666	Not Detectable
Other Additives	---	---
2 Furfural Content mg/kg/gm	IEC 61198	Not Detectable
Stray Gassing	See 6.22	No General Requirement
3-Performance:		
Oxidation Stability @120°C, 164 HRS	IEC-61125:1992 (METHOD C) TEST DURATION; UNINHIBITED OIL: 164 Hrs	
A) Total Acidity mg KOH /gm	1.9.4 of IEC 61125:1992	Max. 1.2
B) Sludge %	1.9.1 of IEC 61125:1992	Max. 0.8
C) DDF @ 90 °C	1.9.6 Of IEC 61125:1992	Max. 0.5
Gassing Tendency	Amendment 1(2004) +IEC 60247	No General Requirement
ECT	IEC60628:1985, METHOD A	No General Requirement
4- Health, Safety and Environment:		
Flash Point	ISO 2719	Min. 135°C
PCA Content %	BS-2000 PART 346	Max. 3 .0%
PCB Content mg/kg/gm	IEC-61619	Not Detectable
Carbon Type Analysis CA % CP % CN %	FTIR	4.0 to 12.0 Max. 50.0 Min. 42.0



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Mercedes-Benz

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Transformer Oils manufactured by DANA LUBRICANT FACTORY are from selected, severely Hydrotreated Naphthenic & Isodewaxed / Hydrocracked Paraffinic Oils and Naphthenic Oils that are free from polar compounds, having high oxidation stability and ageing properties. The ultra low sulphur and wax free Naphthenic Oils/Paraffinic oils along with low Viscosity Index ensure excellent cooling characteristics, high solvency and low corrosivity. These optimally refined Transformer Oils also possess very good electrical and insulating properties, oxidation stability and controlled low or negative gassing tendency.

Panama Petrochem Ltd manufactures Transformer Oils that meet the following standards:

- IS 335:1993
- IEC 296 Class I & II
- IEC 60296
- BS148 Grade I & II

About Manufacturer

Dana Lubricants Factory, Dubai based , Petrochemical manufacturer and supplier for wide range of Petrochemicals covering Base oils, Solvent Neutral Sn 100/150/300/500/600/900 , Automotive Lubricants and engine oils , Industrial Lubricant Oils and Grease , White oils and Petroleum Jelly, Octane Booster and Fuel Additives , Transformer oils Paraffinic and Napthenic , White spirit , Mix Xylene toluene and Rpo . Middle east is hub for all petrochemicals refined, produced and packaged in UAE in bulk packing like Iso , Flexi , Drums (Metal drums and plastic drums) , Ibc (tote) and exported to across the globe using standard 20 " and 40" containers .

Dana Petrochemicals , Dana Plastics , Dana Lubricants , Dana Base oils , Dana Transformer Oils , Dana Paints , Dana Steel are all different divisions of Dana Group of Companies spread around in entire UAE covering all emirates Dubai , Abu Dhabi , Ajman, UAQ and other countries like India, Saudi Arabia and Oman .

For more details , visit [http:// www.danalubes.com](http://www.danalubes.com) , <http://www.danagroups.com>



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