HIKOL - Uninhibited Transformer Oil

TECHNICAL DATA SHEET

Description:

Transformer Oil is manufactured using special Miscellaneous Hydrocarbon Mixtures which possess inherently high dielectric strength. It is manufactured under strict conditions to conform to IEC 60296 Edition 5.0

Application:

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.

Typical Specifications as per latest IEC60296 ed5

Tests	Method	STANDARD	Results	Unit
Appearance	ASTM D 1524	Clear and bright	Clear and bright	
Colour Sayblot	ASTM D 156	Min. 30	+30	
Sp.gr @ 15 °C	ISO 3675	Max. 0.895	0.86	
Flash point	ISO 2719	Min. 135	144	°C.
Pour point	ISO 3016	Max. - 40	> - 45	°C.
Viscosity @ 40 °C	ISO 3104	Max. 12	11.8	cSt
Viscosity @ -30 °C	ISO 3104	Max. 1800	734	cSt
Neutralization value	IEC 62021-1	Max.0.01	0.005	mgKOH/g
Corrosive sulfur	DIN 51353	Non corrosive	Non corrosive	
Water content	IEC 60184	Max. 30.0	9.5	ppm
Interfacial tension @ 25 °C	ASTM D 971	Min. 40.0	45	mN/ m
Breakdown voltage	IEC 60156			
as delivered, kV		Min. 30.0	> 60	kV.
after treatment, kV		Min. 70.0	> 70	
Dissipation factor @ 90 °C	IEC 60247	Max. 0.005	0.0002	%
Resistivity @ 90 °C Ohm	ASTM D 924	Min. 20000.0	22400	G Ω-m
Oxidation stability	IEC 61125			
After 164 h :				
Total Acidity	IEC 61125	Max. 1.2	0.4	mgKOH/g
Sludge	IEC 61125	Max. 0.8	0.1	wt %
DDF at 90 ˚C	IEC 61125	Max. 0.5	0.05	
Gassing tendency	IEC 60628:1985 A	Max. + 30		µL / min
Aromatic Content	IP 368		0.07	wt %
Inhibitors	IEC 60666	<0.01	<0.01	wt %

**The above figures are typical of blends with normal production tolerance and do not constitute a specification.*

For further information, please contact; info@hikelube.com
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DBDS	IEC 62697-1	<1	<5	Mg/kg
PCA content	IP 346	Max. 3.0	0.01	wt %
PCB content	IEC 61619	Not detectable	NIL	ppm

Furanic compounds details IEC 61198 Limits of each furan < 0.05 mg/kg

5-hydroxymethyl -2-furaldehyde	Furfuryl Alcohol	2-Furaldehyde	2-Acetylfuran	5-Methyl-2Furaldehyde	Total Furan
<0.01 mg/kg	<0.01 mg/kg	<0.01 mg/kg	<0.01 mg/kg	<0.01 mg/kg	<0.01 mg/kg

Product Handling and Shipment:

Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water. Not regulated as a hazardous material for transportation

Health and Safety:

Inhalation of vapors and/or mists might irritate respiratory tract. Prolonged skin contact will cause defecting and possible irritation.

Hazard Classification:

No classification needed according to 67/548/EC and 1999/45/EC.

Certificate SA11/2275

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