PRODUCT DATA SHEET

AK THERMOL 49

DESCRIPTION:

AUTOKING THERMOL 49 Oil is a Superior Quality based on hydrotreated Mineral oil. This oil is uninhibited type having low viscosity and extremely effective in their ability to insulate components of the transformer and ensure efficient cooling in the system.

In addition, AUTOKING THERMOL 49 Oil enables outstanding protection against oxidation and prevents wear of core, windings and other insulating materials.

PERFORMANCE LEVEL:

- IEC: 60296: 2012 OR Edition 4.0 Standard
- ASTM D 1275 Test Requirement for Corrosive Sulphur

PERFORMANCE

- Reduced Downtime
- High Dielectric Strength and Low Power loss
- Higher Productivity
- Faster Operation
- Maintaining System Efficiency

APPLICATION:

- AK THERMOL 49 Oil is recommended for oil filled Transformers, Switchgear, Capacitors and other allied equipments.
- AK THERMOL 49 Oil is recommended for Power Sectors Include Power Generation Unit/Plant as well as Specific Machines & Equipment like Feed Water Pump.
- Machines Operated at high speeds, Higher Temperature and various other operation factors besides running non-stop and continuously.

BENEFITS:

- Superior Insulating Properties
- Excellent Oxidation Stability
- Excellent Cooling Properties
- Very Good heat Transfer Characteristics
- Superior Interfacial Tension

STERLITE LUBRICANTS PVT. LTD.
Corporate Headquarters
65-Second Floor, 4D SQUARE,
Visat-Ghandhinagar Highway,
Motera, Ahmedabad 380005
079-66172662 | www.sterlitelubricants.com

PRODUCT DATA SHEET

Auto King
Oils by an Indian

TYPICAL PROPERTIES:

CHARACTERISTICS	UNIT	TEST METHOD	THERMOL 49
APPEARANCE	--	SAMPLE INSPECTION IN TRANSMITTED LIGHT UNDER A THICKNESS OF 101 MM AT AMBIENT TEMPERATURE	CLEAR & FREE FROM SUSPENDED MATTER
DENSITY AT 20^0 C (MAX)	G/ML	ISO 3675 OR IEC 12185	0.895
KINEMATIC VISCOSITY	MM^2 / SEC	ISO 3104	
A. AT 40^0 C (MAX)			12
B. AT -30^0 C (MAX)			180
FLASH POINT PMCC (MIN)	^{0}C	ISO 2719	135
POUR POINT (MAX)	^{0}C	ISO 3016	-40
CORROSIVE SULPHUR	--		
SILVER STRIP, AT 100^0 C FOR 18 HRS.		DIN 51353	NON CORROSIVE
COPPER STRIP, AT 150^0 C FOR 48 HRS.		ASTM D 1275 B	
ELECTRIC STRENGTH BREAKDOWN VOLTAGE		IEC 60156	
A. AS DELIVERED (MIN.)	KV		30
B. AFTER TREATMENT (MIN.)	KV		70
DIELECTRIC DISSIPATION FACTOR (MAX.)	--	IEC 60247 OR IEC 61620	0.005
TAN DELTA AT 90^0 C & 40 TO 60 HZ			
OXIDATION STABILITY AT 120^0 C FOR 164 HRS.		IEC 61125 METHOD C	
A. TOTAL ACIDITY (MAX)	MG KOH/GM	1.9.4 OF IEC 61125 : 1992	1.0
B. TOTAL SLUDGE (MAX)	%	1.9.1 OF IEC 61125 : 1992	0.1
C. DIELECTRIC DISSIPATION FACTOR TAN Δ AT 90^0 C	MAX.	1.9.6 OF IEC 61125 AMENDMENT 1 (2004)	0.5
GASSING TENDENCY	3L / PLQ	IEC 60628 : 1985 METHOD A	NO GENERAL REQ.
INTER FACIAL TENSION AT 25^0 C (MIN.)	MN/M	EN 14210 OR ASTM D 971 (IT IS USED AT GENERAL)	NO GENERAL REQ.
ANTI-OXIDANT ADDITIVES	%	IEC 60666	NOT FOUND
POTENTIALLY CORROSIVE SULPHUR	--	IEC 62535	NOT CORROSIVE
DBDS	MG / KG	IEC 62697 – 1 (IN PREPARATION)	NOT FOUND
TOTAL SULPHUR CONTENT	%	IP 373 OR ISO 14596	NO GENERAL REQ.
PCA CONTENT (MAX.)	%	IP 346	3
PCB CONTENT	MG/KG	IEC 61619	NOT FOUND
PARTICLE CONTENT	--	IEC 60970	NO GENERAL REQ.
METAL PASSIVATOR ADDITIVES OF IEC 60666	MG/KG	IEC 60666	NOT FOUND
WATER CONTENT (MAX)	PPM	IEC 60814	
A. BULK (MAX)			30
B. DRUM (MAX)			40

HEALTHY, SAFETY & ENVIRONMENT:- Auto king oil are unlikely to present any significant health or safety hazard when properly used in the recommended application and good standard of industrial and personal hygiene are maintained. For more details contact STERLITE INDIA REPRESENTATIVES.

STERLITE LUBRICANTS PVT. LTD.
Corporate Headquarters
65-Second Floor, 4D SQUARE,
Visat-Ghandhinagar Highway,
Motera, Ahmedabad 380005
079-66172662 | www.sterlitelubricants.com