



## AK THERMOL 27

### DESCRIPTION:

AUTOKING THERMOL 27 Oil is Uninhibited Superior Quality Mineral Insulating Oil with good Dielectrical Properties and Oxidation Stability Intended for Transformer, Switch Gear and Other Electrical Equipment.

AUTOKING THERMOL 27 Oil Contains Low Aromatics & Polar Free, Hence Excellent Insulation Properties. Its Function is to Insulate, Suppress Corona and Arcing to Serve as Coolant. This Oil help to Cool the Transformer because it also Provide Part of Electrical Insulation Between Internal live Parts.

### APPLICATION:

- AK THERMOL 27 Oil is recommended for Oil filled Transformers, Switchgear, High Voltage Capacitors and Other allied equipment.
- AK THERMOL 27 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.

### PERFORMANCE LEVEL:

- IS:335 – 2018 Revision 5

### PERFORMANCE

- Reduce Down Time
- High Dielectric Strength and Low Power loss
- Higher Productivity
- Maintaining System Efficiency

### BENEFITS:

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

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**TYPICAL PROPERTIES:**

CHARACTERISTICS	UNIT	TEST METHOD	THERMOL 27
APPEARANCE	--	EXAMINED IN A 100 MM THICK LAYER AT 27 <sup>0</sup> C	CLEAR, TRANSPARENT & FREE FROM SUSPENDED MATTER.
DENSITY AT 29.5 <sup>0</sup> C (MAX)	G/ML	IS 1448 P 16-1997	0.89
KINEMATIC VISCOSITY AT 27 <sup>0</sup> C (MAX)	CST	IS 1448 P 25-1996	27
INTER FACIAL TENSION AT 27 <sup>0</sup> C (MIN)	N/M	IS 6104 - 1971	0.04
FLASH POINT PMCC (MIN.)	<sup>0</sup> C	IS 1448 P 21 - 1970	140
POUR POINT (MAX)	<sup>0</sup> C	IS 1448 P 10 - 1970	-6
NEUTRALIZATION VALUE	MG KOH/GM	IS 1448 P 2 - 1967	
A. TOTAL ACIDITY (MAX)			0.03
B. INORGANIC ACIDITY/ALKALINITY			NIL
CORROSIVE SULPHUR	--	IS 335 ANNEXURE B	NON-CORROSIVE
COPPER STRIP, AT 140 <sup>0</sup> C FOR 19 HRS.			
ELECTRIC STRENGTH BREAKDOWN VOLTAGE		IS 6792 - 1972	
A. NEW UNFILTERED OIL (MIN)	KV		30
B. AFTER FILTRATION (MIN)	KV		60
DIELECTRIC DISSIPATION FACTOR TAN δ AT 90 <sup>0</sup> C (MAX)	--	IS 6262 - 1971	0.002
SPECIFIC RESISTANCE (RESISTIVITY)		IS 6103 - 1971	
A. AT 90 <sup>0</sup> C (MIN)	OHM – CM		35 X 10 <sup>12</sup>
B. AT 27 <sup>0</sup> C (MIN)	OHM – CM		1500 X 10 <sup>12</sup>
OXIDATION STABILITY AT 100 <sup>0</sup> C FOR 164 HRS.		IS 335 ANNEXURE C	
A. TOTAL ACIDITY (MAX)	MG KOH/GM		0.4
B. TOTAL SLUDGE (MAX)	%		0.1
AGEING CHARACTERISTICS AFTER ACCELERATED AGEING (OPEN BEAKER METHOD WITH COPPER CATALYST)		IS 12177 – 1987 METHOD A	
A. SPECIFIC RESISTANCE (RESISTIVITY)			
AT 27 <sup>0</sup> C (MIN)	OHM – CM		2.5 X 10 <sup>12</sup>
AT 90 <sup>0</sup> C (MIN)	OHM – CM		0.2 X 10 <sup>12</sup>
B. DIELECTRIC DISSIPATION FACTOR TAN δ AT 90 <sup>0</sup> C	MAX		0.20
C. TOTAL ACIDITY (MAX)	MG KOH/GM		0.05
D. TOTAL SLUDGE (MAX)	%		0.05
PRESENCE OF OXIDATION INHIBITOR (MAX)	%	IS 13631 - 1982	NOT CONTAIN ANTIOXIDANT ADDITIVE
WATER CONTENT (MAX)	PPM	IS 13567 - 1992	50
OXIDATION STABILITY (ROTATING BOMB TEST) (MIN)	MINUTES		N.A.

**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.

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