



## AK THERMOL 32

### DESCRIPTION:

AUTOKING THERMOL 32 Oil is Uninhibited Electrical Insulating Oil. AK THERMOL 32 is Suitable for Use as an Insulating and Heat Transfer Media in Electrical Systems Where normal Oxidation Resistance is Required.

AUTOKING THERMOL 32 Oil is Formulated by Multi Stage Continuous Refining Process, Clay Contracting and Vacuum Filtration Process. This Oil Contains Low Aromatic and Polar free, Hence Excellent Insulation Properties.

### APPLICATION:

- AK THERMOL 32 Oil is used in Oil filled Transformers, Switchgear, Capacitors and other allied equipment.
- AK THERMOL 32 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:

BS:148 Class I & II – 1984 Standard

### PERFORMANCE

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

### BENEFITS:

- Compatible with Transformer Material
- Excellent Oxidation Stability
- Excellent Cooling Properties
- Very Good heat Transfer Characteristics
- Superior Interfacial Tension



**TYPICAL PROPERTIES:**

CHARACTERISTICS	UNIT	TEST METHOD	THERMOL 32 BS I	THERMOL 32 BS II
<b>APPEARANCE</b>	--	EXAMINED IN TRANSMITTED LIGHT UNDER AN OIL DEPTH OF 100 MM AT AMBIENT TEMPERATURE	CLEAR & FREE FROM SUSPENDED MATTER	CLEAR & FREE FROM SUSPENDED MATTER
<b>DENSITY AT 20<sup>0</sup> C (MAX)</b>	KG/DM <sup>3</sup>	BS 4714	0.895	0.895
<b>KINEMATIC VISCOSITY</b>	MM <sup>2</sup> / SEC	BS 2000 PART 71		
<b>A. AT 40<sup>0</sup> C (MAX)</b>			16.5	11
<b>B. AT -30<sup>0</sup> C (MAX)</b>			NO GENERAL REQ.	1800
<b>C. AT -15<sup>0</sup> C (MAX)</b>			800	NO GENERAL REQ.
<b>FLASH POINT PMCC (MIN.)</b>	<sup>0</sup> C	BS 2000 PART 34	140	130
<b>POUR POINT (MAX)</b>	<sup>0</sup> C	BS 2000 PART 15	-30	-45
<b>CORROSIVE SULPHUR</b>	--			
<b>COPPER STRIP, AT 140<sup>0</sup> C FOR 19 HRS.</b>		BS 5680 : 1979 ASTM D	NON CORROSIVE	NON CORROSIVE
<b>COPPER STRIP, AT 150<sup>0</sup> C FOR 48 HRS.</b>		1275 B	NO GENERAL REQ.	NON CORROSIVE
<b>ELECTRIC STRENGTH BREAKDOWN VOLTAGE</b>		BS 5874		
<b>A. AS DELIVERED (MIN.)</b>	KV		30	30
<b>DIELECTRIC DISSIPATION FACTOR (MAX.)</b>	--	BS573	0.005	0.005
<b>TAN DELTA AT 90<sup>0</sup> C &amp; 40 TO 60 HZ</b>				
<b>OXIDATION STABILITY AT 120<sup>0</sup> C FOR 164 HRS.</b>		BS 148 : 1984 APPENDIX A		
<b>A. TOTAL ACIDITY (MAX)</b>	MG KOH/GM		1.5	1.5
<b>B. TOTAL SLUDGE (MAX)</b>	%		1.0	1.0
<b>GASSING TENDENCY AT 50 HZ AFTER 120 MINUTES (MAX.)</b>	MM <sup>3</sup> /MIN	BS 5797 METHOD A	+5	+5
<b>ANTI-OXIDANT ADDITIVES</b>	%	BS 5984 : 1980	NOT FOUND	NOT FOUND
<b>NEUTRALIZATION VALUE (MAX.)</b>	MG KOH/GM	BS 2000 PART 1	0.03	0.03
<b>WATER CONTENT (MAX)</b>	PPM	BS 6470		
<b>A. BULK (MAX)</b>			30	30
<b>B. DRUM (MAX)</b>			40	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.

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