



## AK THERMOL 46

### DESCRIPTION:

AUTOKING THERMOL 46 Oil is a Premium Quality Mineral Oil Based. This insulating Oil Formulated from selected feed stocks. This Oil is uninhibited type having low viscosity and good Dielectric Properties.

AUTOKING THERMOL 46 Oil is Produced through a Multi stage refining Process, Clay Contracting and Micro Filtration Process. This Oil is Low Aromatic and also free of Polar compound, Hence it has excellent Insulating Properties.

### APPLICATION:

- AK THERMOL 46 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.
- AK THERMOL 46 Oil is recommended for Transformers, Switchgear, Capacitors and other allied equipments.

### PERFORMANCE LEVEL:

- IEC: 296 Class I & Class II – 1982 Standard

### PERFORMANCE

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

### BENEFITS:

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



**TYPICAL PROPERTIES:**

CHARACTERISTICS	UNIT	TEST METHOD	AK THERMOL IEC46 CL1	AK THERMOL IEC46 CL2
<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>	ISO 3675	0.895	0.895
<b>KINEMATIC VISCOSITY</b>	MM <sup>2</sup> / SEC	ISO 3104		
<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	ISO 2719	140	130
<b>POUR POINT (MAX)</b>	<sup>0</sup> C	ISO 3016	-30	-45
<b>CORROSIVE SULPHUR</b>	--			
<b>COPPER STRIP, AT 140<sup>0</sup> C FOR 19 HRS.</b>		ISO 5662	NON CORROSIVE	NON CORROSIVE
<b>COPPER STRIP, AT 150<sup>0</sup> C FOR 48 HRS.</b>		ASTM D 1275 B	NO GENERAL REQ.	NON CORROSIVE
<b>ELECTRIC STRENGTH BREAKDOWN VOLTAGE</b>		IEC 156		
<b>A. AS DELIVERED (MIN.)</b>	KV		30	30
<b>B. AFTER TREATMENT (MIN.)</b>	KV		50	50
<b>DIELECTRIC DISSIPATION FACTOR (MAX.)</b>	--	IEC 247	0.005	0.005
<b>TAN DELTA AT 90<sup>0</sup> C &amp; 40 TO 60 HZ</b>				
<b>OXIDATION STABILITY AT 100<sup>0</sup> C FOR 164 HRS.</b>		IEC 74		
<b>A. NEUTRALIZATION VALUE (MAX)</b>	MG KOH/GM		0.4	0.4
<b>B. TOTAL SLUDGE (MAX)</b>	%		0.1	0.1
<b>INTER FACIAL TENSION AT 25<sup>0</sup> C (MIN.)</b>	N/M	ISO 6275	0.04	0.04
<b>ANTI-OXIDANT ADDITIVES</b>	%	IEC 666	NOT FOUND	NOT FOUND
<b>NEUTRALIZATION VALUE (MAX.)</b>	MG KOH/GM	7.7 OF IEC 296	0.03	0.03
<b>WATER CONTENT (MAX)</b>	PPM	IEC 733		
<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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## PRODUCT DATA SHEET



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