



أوبلي لوب
OBLUBE

TECHNICAL DATA SHEET

OBLUBE TRANSFORMER OIL

Product Description & Application:

OBLube Transformer Oil is a specially refined uninhibited light mineral oil designed for today's high performance oil-filled transformer oils. It is manufactured using selected basestocks to give outstanding insulating and cooling properties required by modern high performance transformers. It has excellent resistance against the formation of acids and sludge which is a common problem with high temperature electrical applications.

Performance Level:

OBLube Transformer Oil has a very high di-electric strength which exceeds the requirements of IEC (International Electrotechnical Commission) 296 Class-1 (Uninhibited) and BS (British Standard) 148 Class-1 transformer oil standards.

Results of Analysis (As Tested):

OBLube Transformer Oil				
Tests	Method	Standard (IEC-296 Class-1)	Results	Unit
Appearance	ASTM D 1524	Clear and Bright	Clear and Bright	
Color	ASTM D 1500	0.5 (max.)	0 -0.5	
Specific Gravity @ 15°C	ASTM D 1298	0.9 (max)	0.854	
Flash point	ASTM D 93	140 (min)	148	°C
Pour point	ASTM D 97	-40 (max)	-38	°C
Viscosity @ 40 °C	ASTM D 445	12 (max)	9.0	cSt
Viscosity @ 15 °C	ASTM D 445	800 (max)	132	cSt
Neutralization Value	ASTM D 974	0.01 (max)	0.007	mg KOH / g
Corrosive Sulfur	DIN 51353	Non-Corrosive	Non-Corrosive	
Water Content	ASTM D 1533	35 (max)	10	ppm
Interfacial Tension @ 25°C	ASTM D 971	40.0 (min)	42	mN / m
Breakdown Voltage, as delivered	IEC 156	30.0 (min)	35	kV
Breakdown Voltage, after treatment	IEC 156	60.0 (min)	60	kV
Dissipation Factor @ 90°C	ASTM D 924	0.5 (max)	0.0013	%
Resistivity @ 20 – 30°C & 100 V/ mm	ASTM D 924	20,000 (min)	85,000	G ohm-m
Oxidation Stability after 164 hours:				
Neutralization Number	IEC 1125C	1.2 (max)	0.051	mg KOH / g
Sludge		0.8 (max)	0.056	wt. %
Gassing Tendency	ASTM D 2300B	+ 30 (max)		µL / min
Anti-oxidant Phenols	ASTM D 2668	Not Detectable	Nil	wt. %
PCA Content	IP 346	3.0 (max)	2.57	wt. %
PCB Content	ASTM D 4059	Not Detectable	Nil	ppm

Health and Safety:

OBLUBE Lubricants are unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained. Use gloves which are impervious to oil and chemicals when handling used oils. Avoid skin contact. If lubricants come in contact with skin, wash immediately with soap and water.

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