



Technical Data Sheet (TDS)

Attock Transformer Oil

Attock Transformer Oil is a mineral base transformer and insulating oil used for insulation and cooling of transformer and allied equipment.

Benefits:

- Prolong transformer life.
- Provide excellent insulating characteristics.
- Limits the formation of slug, deposit and soluble components.

Typical Physical Characteristics:

TEST DESCRIPTION	TEST METHOD	SPECIFICATION		TYPICAL VALUES
		MIN	MAX	
FUNCTIONS				
KINEMATIC VISCOSITY @ 40C.cSt.	ISO 3104		12	11
KINEMATIC VISCOSITY@-20CcSt	ISO 3104		1800	< 800
POUR POINT C. ()	ISO 3016		-30	-33
WATER CONTENT PPM	IEC 60184		30 #	15
BREAK DOWN VOLTAGE kV (BT)	IEC 60156	30		50
BREAK DOWN VOLTAGE kV (AT)	IEC 60156	70		80
DENSITY@20C	ISO 12185		0.89	0.87
SPECIFIC GRAVITY@85F	ISO 12185		-	REPORT
DDF@90C	ISO 60247		0.005	0.003
REFINING/STABILITY				
APPEARANCE	VISUAL		B&CLEAR	B&CLEAR
ACIDITY mg KOH/g	ISO 62021-1		0.01	< 0.01
INTER FACIAL TENSION mN/m *	ASTM D-971	40		> 40
CORROSIVE SULPHUR	IEC 60296	PASS		PASS
CORROSIVE SULPHUR	SIEMENS METHOD	PASS		PASS
FURFURAL CONTENT mg/Kg.	IEC 61198		0.1	< 0.1
ANTI OXIDANT ADDATIVES%	IEC 60666/FTIR		N.D	N.D
CARBON DISTRIBUTION	FTIR			
Ca. % *				8
Cp. %				54
Cn. %				38
PERFORMANCE				
OXIDATION STABILITY@120C (164hrs)	IEC 61125 C			
TOTAL ACIDITY mg KOH/GM.			1.2	< 1.2
SLUDGE%.			0.8	< 0.8
DDF@90C			0.5	< 0.5
HEALTH, SAFETY AND ENVIRONMENT				
FLASH POINT PMCC.C	ISO 2719	135		145
PCA CONTENT %	BS 2000 PART (346)		3	3
PCB CONTENT PPM	IEC 61619		N.D	N.D