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AFRIQ TRANSFORMER OIL RG

DESCRIPTION

Transformer oils or insulating oils are usually a highly-refined mineral oil that is stable at high temperatures and has excellent electrical insulating properties. The functions of these oils are to insulate, suppress corona and arcing as well as to serve as a coolant.

APPLICATION

Transformer oil is used in:

- oil-filled transformers,
- some types of high voltage capacitors,
- fluorescent lamp ballasts of high voltage switches
- and circuit breakers.

BENEFITS

- Transformer oils help cool the transformer.
- Transformer oils must remain stable at high temperatures for an extended period because it also provides part of the electrical insulation between internal live parts.
- The oil-filled tank may have external radiators through which the oil circulates by natural convection to improve cooling of large power transformers.

TYPICAL PHYSICAL CHARACTERISTICS

TEST	METHOD	SABS 565 LIMITS	RESULTS
Density @ 20 ° C kg/l	I.P. 160	0.895 MAX	0.875
Kinematic Viscosity	I.P.71		
@ 40 ° C		16.5 MAX	12.4
@ - 15 ° C		800 MAX	328
Flash Point ° C	I.P. 34	140 MIN	153
Pour Point ° C	I.P. 15	-21 MAX	-33
Neutralisation Value	I.P. 1(B)	0.03 MAX	0.01
Mg KOH/g			
Corrosive Sulphur	I.P. 315	Non corrosive	Non corrosive
Electric Strength Kv	I.P. 295	30MIN	72
Resistivity	ASTM D1169		
@ 20 ° C G m			15000
@ 90 ° C G m			450
Dielectric Dissipation	IEC 250		
@ 90 ° C		0.005 MAX	0.0018
Water Content mg/kg	ASTM	35 MAX	3



Oxidation Test	I.P.307		
Neutralisation Value		0.4 MAX	21
Mg / KOH / g			
Sludge		0.1	0.035
Colour			Light Amber
Appearance			Clear
Particles		Nil	Nil
Fibres		Nil	Nil