



Document  
Number:

**TDS 039**

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**SUBJECT: OIL SPECIFICATIONS**

**ENVIRONMENTAL & QUALITY MANUAL**  
*(in accordance with ISO 9001 & 14001)*

## VISCOL TRANSFORMER OIL

### Description:

An insulating oil for electrical transformers, switch gear and circuit breakers; produced by special refining techniques to give the following properties:

- High dielectric strength
- High oxidation resistance, low sludge-formation and long service life in condition of frequent spark-quenching.
- Low viscosity combined with low volatility. The low viscosity enables the oil to circulate easily and penetrate into the interstices of windings and coils, whereas the low volatility minimises vapour loss

### Performance:

Viscol Transformer Oil conforms to IEC 296 (1982) Class I, British Standard Specification BBS 148 1985 and SABS 555-1985 and carries the mark.

### Typical Characteristics:

	UNIT	METHOD	JS-A
Density @ 20 °C	kg/l	IP 261	0.858
Viscosity @ 20 °C	cSt	ASTM D445	30
Viscosity @ -15 °C	St	ASTM D445	800
Flash Point PMCC	°C	ASTM D93	160
Pour Point	°C	ASTM D97	-45
Acidity (NV)		IEC 296	0.03
Corrosive Sulphur		ASTM D1275	Non-corrosive
Water Content	mg/kg	Karl Fisher	10
Electrical Strength			
(Average BDV)*	kV	BS 148	50
Loss Tangent (Tan Delta)		BS 148	0.003
Oxidation Stability			
Acidity after oxidation	mgKOH/g	SABS 555	0.2
Sludge after oxidation	% m/m		0.03

Viscol Transformer Oil is guaranteed to have a BDV of 50 kV at time of filling into 210 litre or bulk containers. This is in accordance with the requirements of SABS 555.

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Experienced personnel from our Technical Division are available for discussion on all aspects. Recommendations are given in good faith but without warranty. It is the users responsibility to determine the suitability for his own use.

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