



## Gulf Transcrest I

### Inhibited Electrical Insulating Oil

#### Product Description

**Gulf Transcrest I** is high performance inhibited electrical insulating oil specially designed for use in transformers, switchgears and other electrical equipment. This oil is formulated with high quality severely hydroprocessed naphthenic base oils and fortified with an inhibitor to minimize oxidative change and extend its service life. It possess excellent thermal and oxidation stability, good dielectric properties and heat transfer characteristics due to the low viscosity to provide reliable operation, with reduced down-time and extended service life. **Gulf Transcrest I** exceeds the performance requirements of major transformer and switchgear specifications for inhibited oils.

#### Features & Benefits

- Excellent thermal stability and oxidation resistance prevents sludge formation, controls deposits and minimises oil degradation leading to reliable operation
- High dielectric strength ensures excellent insulation and quenching of electric arc between switchgear contacts when opening the switch.
- Low power-loss contributes to overall efficiency
- Low viscosity and high interfacial tension ensures good wetability of oil and removal of air gaps to insulate windings and dissipate heat.
- Effective long term protection from rust and corrosion to critical system components

#### Applications

- Insulating and cooling oil for electrical transformers, switchgears, circuit breakers, capacitors and automotive ignition coils.
- Used where inhibited insulating oils meeting IEC 60296: Inhibited type (I) are required.

#### Specifications, Approvals & Typical Properties

Meets the following Specifications		
IEC 60296 Inhibited Type (I)		X
Typical Properties		
Test Parameters	Test Method	Typical Values
Viscosity @ 40 °C, cSt	ISO 3104	9.1
Viscosity @ -30 °C, cSt	ISO 3104	1045
Flash Point, PMCC, °C	ISO 2719	145
Pour Point, °C	ISO 3016	-62
Density @ 20°C, Kg/l	ISO 12185	0.881
Breakdown Voltage, kV, Before Treatment	IEC 60156	59
Breakdown Voltage, kV, After Treatment	IEC 60156	84
Acid Number, mg KOH/g	IEC 62021-1	<0.01
DDF @ 90°C	IEC 60247	0.001
Interfacial Tension, mN/m	ASTM D 971	50
Corrosive Sulphur	IEC 62535	Noncorrosive
Sulphur, wt%	ISO 14596	0.005
Antioxidant Additive, wt%	IEC 60666	0.38
Water Content, mg/kg	IEC 60814	10
Oxidation Stability @ 120°C, 500 hrs		
- Total Acidity, mg KOH/g	IEC 61125,C	0.04
- Sludge, %		0.02
- DDF @ 90°C		0.013
PCB Content	IEC 61619	Not Detected

May 2011

Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

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