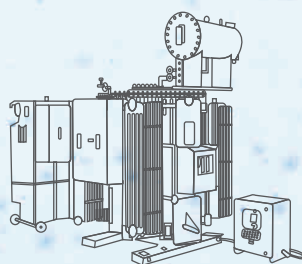
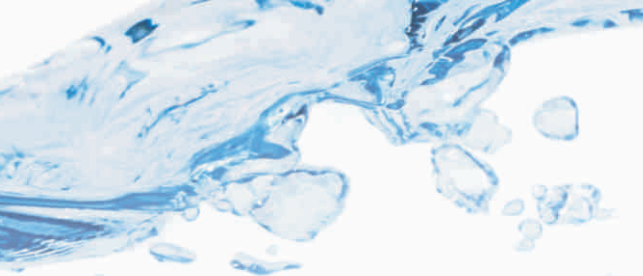


**ELECTROL<sup>®</sup>**

TRANSFORMER INSULATING OILS



**Raj Group**



**ELECTROL**<sup>®</sup> Range of high performance Transformer oils are recognized as a leading brand within the Power industry. Recognizing the varied requirements for different applications and catering to various equipment types, Power transformers, Distribution transformers, Instrument transformers, etc. **ELECTROL**<sup>®</sup> series of oils are offered in many grades to satisfy and exceed the necessities of various applications.

Manufactured from latest technology severely refined feed stocks at ISO 9001:2008 certified manufacturing facilities, **ELECTROL**<sup>®</sup> series of oils perform exceeding well in key performance criteria. Formulated with judicious blend of severely refined hydro-cracked & hydro-treated virgin Mineral oils, **ELECTROL**<sup>®</sup> series offer very high degree of purity and oxidation stability thereby extending life of the oil.

**ELECTROL**<sup>®</sup> Series of Uninhibited Transformer oils are intended for use in standard equipment where normal operating conditions are envisaged.

For operations at higher temperatures & requiring higher oxidation resistance, range of **ELECTROL**<sup>®</sup> Inhibited oils are recommended.

**ELECTROL**<sup>®</sup> series Inhibited High Grade oils are state-of-the art highly suitable for special applications, these high grade oils manufactured with the highest purity oils and fortified with suitable synthetic inhibitors which interact extremely well with these oils, thereby exhibiting extremely long life and performance. In several applications, when tested, these oils have exhibited more than double the hours of oxidation stability compared to conventional Naphthenic oils of the same class.

Use of these **ELECTROL**<sup>®</sup> Inhibited High Grade oils will result in longer equipment life with minimal need for oil maintenance over life of the equipment, especially important in transformers with high criticality and high cost.

#### **SPECIAL ADVANTAGES** OVER 'CONVENTIONAL' TRANSFORMER OILS :

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- Very low sulphur and no DBDS.
- Non corrosive as tested by all present and new methods, i.e. Standard DIN & ASTM tests and new IEC 62535 :08.
- Higher Flash point, resulting on Low evaporation losses and better safety.
- Remarkably low sludge and acidity formation, in both ageing and oxidation tests, results in longer life of oil and equipment.
- Low viscosity oils offering excellent and fast heat transfer.

#### **HIGHLY SUITABLE** FOR ALL GRADES OF :

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- Power Transformers,
- Distribution Transformers,
- Instrument transformers
- Circuit Breakers,
- Oil filled switches
- X-ray equipment.

#### **COMMON STANDARDS** :

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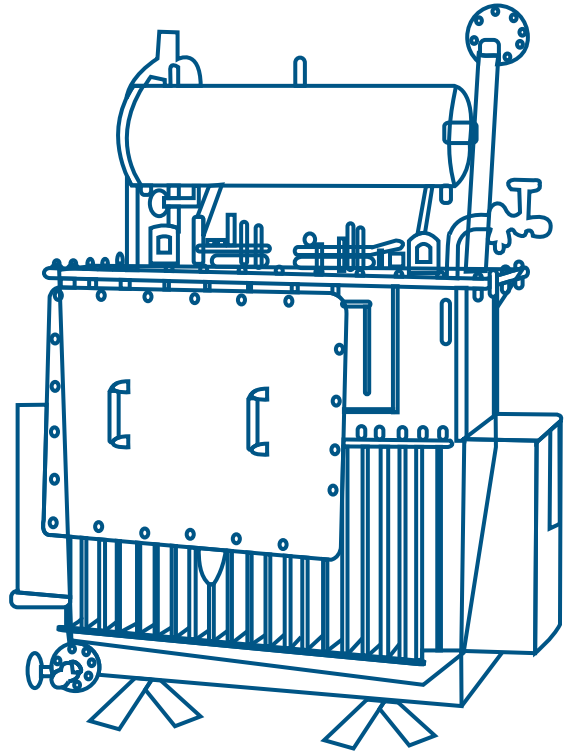
**ELECTROL**<sup>®</sup> Transformer oils are manufactured to various International, Regional, National, Transformer Manufacturer and Utility specified requirements.

India	: IS 335, IS12463
International	: IEC 60296, ASTM D3487, BS 148
National Transformer Manufacturer	: JIS, AS, CAN/CSA, DIN, ANP
Specific Power Board /	: BHEL, Areva, ABB, Siemens
Utility / Other	: PGCIL NTPC, Doble, EGAT, PLN, TEIAS

## GRADES :

**ELECTROL**<sup>®</sup> grades are offered with varying bases to meet several specific international requirements - Iso-Paraffinic, Naphthenic & Blended bases. The performance of bases is a matter of current debate amongst various stakeholders and the Raj point of view is discussed in a separate paper.

UNINHIBITED	ELECTROL <sup>®</sup> ELECTROL <sup>®</sup> - A & B ELECTROL <sup>®</sup> - U
INHIBITED	ELECTROL <sup>®</sup> - X ELECTROL <sup>®</sup> - IA & IB ELECTROL <sup>®</sup> - I
TRACE INHIBITED	ELECTROL <sup>®</sup> - T
HIGH GRADES & SPECIAL GRADES	ELECTROL <sup>®</sup> - IH ELECTROL <sup>®</sup> - IH/SG ELECTROL <sup>®</sup> - HF300
CONVENTIONAL NAPHTHENIC GRADES	ELECTROL <sup>®</sup> - U/N42 ELECTROL <sup>®</sup> - I/N42



## STORAGE PRECAUTIONS

Extreme care is taken while packing these products, including filling of drums in inert atmosphere, as Electrical Insulating oils / Transformer oils are very sensitive to very minute concentrations of contaminants, such as moisture, particulate matter, fibres, etc.

Hence, care should be taken to store **ELECTROL**<sup>®</sup> oils in a clean and dry condition. It is strongly recommended that all storage tanks / drums be maintained such that oil is not in contact with atmospheric air. Also Oils should always be stored indoors in climate controlled environments.



## ABOUT RAJ PETRO SPECIALITIES

Raj group is an eminent Indian Business house focusing on manufacture & export of range of Petroleum Specialty products, with a diversified portfolio ranging from specialty oils, process oils and premium lubricants to performance chemicals.

Raj Petro Specialities operates three manufacturing sites, two in western India at Silvassa & Panoli and one in South India at Chennai. With strategically located plants, Raj Petro Specialities services Indian customers seamlessly across the country and with the sites located close to major Indian Sea Ports-Mumbai and Chennai, Raj Petro Specialities enjoys significant logistical & strategic advantages for servicing its global clientele.

Today, the group has a dynamic global sourcing network, a comprehensive range of products, state of the art ISO 9001:2008 manufacturing infrastructure, dedicated research & development facilities and a proactive marketing team servicing a very large number of satisfied customers across the globe.

### PARTIAL LIST OF PRODUCTS INCLUDES:

<b>ELECTROL<sup>®</sup></b>	- Transformer and Switch gear Electrical Insulating Oils
<b>RAJOL<sup>®</sup></b>	- Liquid Paraffins / White Oils for Cosmetics, Pharmaceuticals & Food processing
<b>RAJELL<sup>®</sup></b>	- Petroleum Jellies for Cosmetics, Pharmaceuticals, Food & Industrial applications
<b>RAJPROL<sup>®</sup></b>	- Process Oils for Rubber, Textiles & other industrial applications
<b>RAJ LUBRITEK<sup>®</sup></b>	- Industrial and Automotive Greases
<b>TELEFIL<sup>®</sup></b>	- Telecommunication Cable Jellies
<b>RAJ HYDRASUPER<sup>®</sup></b>	- Premium Hydraulic Oils
<b>RAJ ULTRAMEK<sup>®</sup></b>	- Other Industrial Oils and Lubricants
<b>FERROCUT<sup>®</sup></b>	- Metal Working Oils
<b>STANSOL<sup>®</sup></b>	- Solvents
<b>SULFERM<sup>®</sup></b>	- Sulphurised Fatty esters, other additives, etc
<b><i>DNWO</i><sup>™</sup></b>	- Range of Food grade & Bio-degradable Lubricants and Performance Products



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