



APAR

Tomorrow's solutions today

POWEROIL®

Powering Ahead



DKSH

POWEROIL TO NE NATURAL ESTER

Eco - Friendly Long Life Transformer Oil



www.apar.com



**POWER OIL
TO NE**



**NATURAL
ESTER
BASED TRANSFORMER OIL**

Transformer Oil is one of the most critical components in a power generation, transmission and distribution system that supports a transformer functioning at an optimum state.



ABOUT APAR



With a legacy spanning over six decades, APAR has evolved from a modest power conductor manufacturer into a global powerhouse in the electrical and energy infrastructure space, earning worldwide acclaim for our pioneering spirit and commitment to quality. A FORTUNE 500 company in India that ventured into the Speciality Oils business in 1968.

The company's three state of the art manufacturing facilities at Rabale, Navi Mumbai, Silvassa - D&N Haveli, and Hamriyah Free Zone, Sharjah, UAE, support a global hub-and-spoke distribution network spanning more than 125 countries. The company has established strategic joint ventures across key regions including Southeast Asia (Malaysia, Indonesia), South Africa, Eastern Europe (Turkey), Australia, and Uganda (Kampala), with additional facilities currently under development. This global footprint ensures faster, localised servicing across every continent, reinforcing its commitment to customer responsiveness.



The world's largest
global aluminium and alloy
conductor manufacturer.

India's largest exporter
and producer of speciality and
renewable cables.

Top 10 players
in the lubricants industry in India.

World's 3rd largest
and India's largest transformer
oils manufacturer.

First and the only
Indian company to provide solution
in copper & fiber hybrid cables.

Present in 140+
countries



Revenue



**Global
footprint**



**Years of
excellence**



**Manufacturing
facilities**

We have developed the right capabilities and expertise for product innovation, quality and timely service to our customers.

For over five decades, POWEROIL has been leading the innovation curve in the transformer oils segment and meeting various international performance standards. The entire range of transformer oils has been developed through our in-house R&D efforts.

POWEROIL also has a range of specially formulated transformer oils that are environment friendly, having excellent cooling characteristics, lower gassing tendencies and stable insulating properties over its useful life. This range of Transformer Oils is marketed as POWEROIL NE.



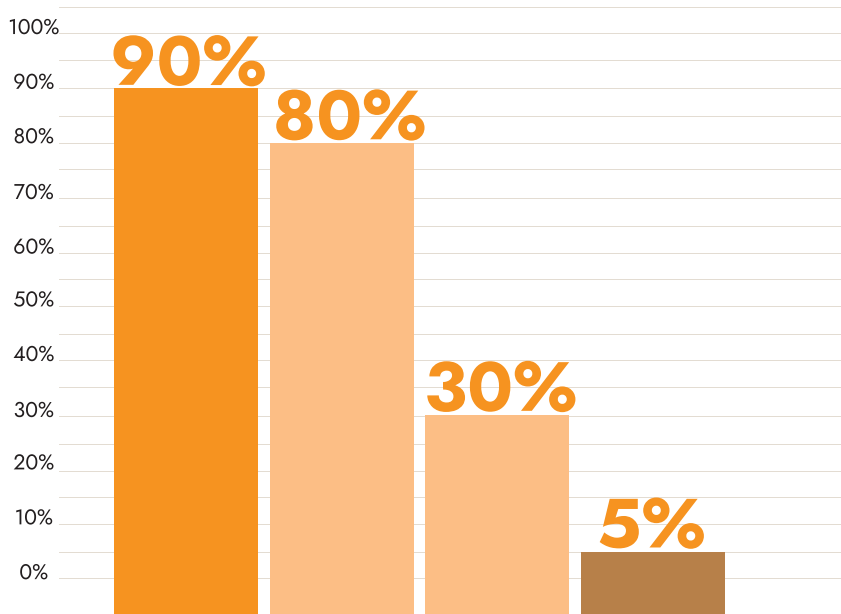


ABOUT POWEROIL TO NE

POWERING AHEAD SUSTAINABILITY

POWEROIL TO NE is a high performance K Class Natural Ester based transformer oil formulated from renewable plant-based feedstocks. This makes it highly biodegradable, with excellent cooling characteristics and fire resistance.

TYPES OF TRANSFORMER OILS UNDER K CLASS FIRE SAFETY COMPARISON OF THEIR BIODEGRADABILITY



1

NATURAL ESTER OIL -

Made from Natural Renewable sources (POWEROIL TO NE & POWEROIL TO NE)

2

SYNTHETIC ESTER OIL -

Esters Synthesized from Basic Chemical Molecules

3

MINERAL OIL -

High Molecular Weight Hydrocarbons (POWEROIL TO - HFLL)

4

SILICONE OIL -

Made from Polymer blocks of silicone



WHAT MAKES POWEROIL TO BE THE BEST FOR TRANSFORMERS?

KEY PERFORMANCE STANDARDS & FEATURES:

- ◆ Meets IEC 62770: 2013, ASTM D 6871 - 17 and IS 16659 : 2017 specifications
- ◆ Negative gassing as per IEC 60628 A / ASTM D 2300
- ◆ High compatibility with key Transformer components post Homologation (studies as per ASTM D 3455)
- ◆ Fire Safe as per ASTM D 92 (Meets K class requirement with fire point > 300° C)



IMPROVES ASSET LIFE:

- ◆ Stable electric properties, longer service life, lower maintenance and replacement costs.
- ◆ Improves the life of cellulose paper (in turn increases the life of the asset).
- ◆ Allows flexibility of overloading by 25% in existing transformers.
- ◆ Retro filling of transformers increases the life of solid insulation material.

ENVIRONMENTAL BENEFITS:

- ◆ Formulated from selective plant-based Natural Esters
- ◆ Readily Biodegradable (OECD 301 B) > 90%
- ◆ Low Aquatic toxicity (OECD 201, 203); ideal for floating installation
- ◆ Lowest Carbon footprint compared to any other transformer oils



POWEROIL NE

is widely accepted for eco-sensitive zones and critical areas for:

- ◆ Transformers in offshore windmill systems
- ◆ In floating Solar Power System Installations Offshore Oil & gas platforms
- ◆ Transformers In ships, Islands, Marine systems and mining sites
- ◆ Distribution Transformers in high-density urban areas
- ◆ Rectifier transformers
- ◆ Pole-type transformers

QUALITY SYSTEMS & CERTIFICATIONS

APAR's manufacturing facilities are accredited with:

- ◆ ISO 9001 : 2015,
- ◆ ISO 14001 : 2015
- ◆ OHSAS 45001: 2017
- ◆ ISO / IEC 17025 : 2017, (NABL - National Accreditation Board of Testing and Calibration Laboratories, Department of Science & Technology, Government of India).
- ◆ DSIR (Department of Scientific & Industrial Research) approved R&D centre.



Tested and approved by independent laboratories:

- Engie Laborelec laboratory, Belgium
- CPRI, India
- ERDA, India





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DKSH is a channel partner of APAR Industries Limited,
India in Australia and New Zealand Market for
Speciality Oil products.