



POWEROIL WHITE OIL

PEARL AND TOPAZ SERIES WHITE OIL OF GUARANTEED
PURITY & QUALITY



APAR Industries Limited is a leading manufacturing company with a leadership position in its three core business segments of speciality oils, conductors and cables, with a billion-dollar turnover. Our other businesses include lubricants, speciality automotive and polymers. Our products have a significant market share in India and are sold in over 125 countries.

Our **POWEROIL** range of speciality oils encompasses 350+ grades of Transformer Oils, White Oils, Petroleum Jellies, Process Oils, Industrial and Automotive Lubricants. We are the third largest Transformer Oil manufacturer in the world. We are trusted by major OEMs, utilities, power generation, transmission & distribution companies.

APAR has two 100% owned manufacturing units in India and also in Hamariyah free zone (Sharjah, UAE) with a combined capacity to produce 520,000 KL. Additionally, we have blending units in Turkey and Australia.



ABOUT APAR GROUP US



POWEROIL WHITE OILS (WHY US)

White Oils are highly refined mineral oils that are extremely pure, stable, odourless, non-toxic and chemically inert. White Oils are made from refining selective hydro-treated / hydrocracked paraffinic base oils. These attributes make them suitable for applications in pharmaceuticals, health care, cosmetics, food packaging, polymers & chemical processing.

POWEROIL has been leading the innovation curve for over five decades and is distinguished for product innovation, quality and timely service. The entire range of **POWEROIL White Oils** are developed through our in-house R&D efforts and are marketed under the brand name "**PEARL**" & "**TOPAZ**". **POWEROIL PEARL** series is specially formulated for Pharma & Food grades. **POWEROIL TOPAZ** series is formulated for Technical grades.

POWEROIL White Oils are REACH registered and the **PEARL** grades meet the HALAL, KOSHER and NSF requirements. They are available in different ISO VG viscosity grades used for specific applications. The Standard range of Viscosities includes ISO VG 15, 22, 32, 46, 68 & 100. Other special Viscosity Grades can be tailor made as per the customer request.

The complete range of White Oil is available in multiple packaging of drums, IBC, flexi & ISO tank.





POWEROIL PEARL SERIES

PHARMACEUTICAL & FOOD GRADE LIQUID PARAFFINS

POWEROIL PEARL series pharma grade mineral oils and liquid paraffin are specially formulated to be:

- Free from any significant sulphur, oxygen, halogen derivatives, unsaturated substances and carcinogenic aromatics.
- Their enhanced formulation makes them free from irritants, allergens, heavy metals and microbes.
- Offers excellent UV stability that helps products retain their whiteness.
- Complies with the latest US FDA 21 CFR 172.878 & CFR 178.3620 (a), USP - NF, EP, BP and IP requirements.

These benefits of **PEARL** series White Oils make them ideal to be widely used in manufacturing cosmetic & personal health care products and in food packaging applications. The higher viscosity grades are also used in thermoplastic elastomers (TPE) and hot melt adhesives.





COSMETICS & PERSONAL HEALTHCARE

- Hair oils & creams
- Facial creams & lotions
- Baby oils & lotions



PHARMACEUTICALS

- Medical formulations
- Ointments
- Laxatives
- Repository vaccines
- Veterinary preparations
- Gelatine capsules



FOOD / FOOD PACKAGING

- Egg preservatives
- Bread, meat packaging
- Food canning
- Fruits & vegetables coating
- Used in paper, polystyrene & plastics based food packaging
- In food industry for pan release, equipment protection and lubrication





POWEROIL TOPAZ SERIES

TECHNICAL GRADE WHITE MINERAL OILS

- **POWEROIL TOPAZ** series technical grade White Oils are offered under a wide viscosity range which are specially formulated from highly refined hydrotreated base oils.
- They are colourless, odourless and tasteless.
- They successfully meet the latest US FDA 21 CFR 178.3620 (b) requirements.
- For the plastic industry, APAR offers EU 10 compliant low volatility White Oils used in the production of various polymer applications.
- Ideal to be used in the textile industry for non-staining lubrication and incense perfume purposes.

TECHNICAL GRADE APPLICATIONS :

- Plasticizers & hydrocarbon resins
- Textile lubricants
- Petroleum jelly
- Incense perfume
- Hot melt adhesives
- Agricultural spray oils & grain dust control
- Thermoplastic elastomer (TPE)
- Animal husbandry products
- Shoe polishes & creams

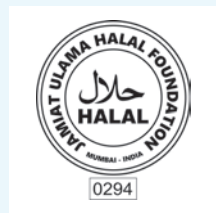




QUALITY SYSTEMS & CERTIFICATIONS

APAR's manufacturing facilities are accredited with:

- ISO 9001: 2015,
- ISO 14001: 2015
- OSHAS 45001: 2018
- 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.
- KOSHER / HALAL / NSF
- REACH registered
- EFCI GMP: 2017





PHARMA GRADE WHITE OILS - TYPICAL PROPERTIES

| Product | Saybolt Colour, Min. (ASTM D 156) | Specific Gravity at 25°C | Kinematic Viscosity ,at 40°C,cSt (ASTM D 445) | Pour Point, °C, Max. (ASTM D 97) | PAH, RCS, Solid Paraffins, UV Absorbance at 240 - 280 nM |
|--------------------------------|--------------------------------------|-----------------------------|---|--|---|
| LIGHT MINERAL OIL U.S.P | | | | | |
| POWEROIL PEARL L 50 | + 30 | 0.818 – 0.880 | 7.00 – 9.00 | - 18 | Passes |
| POWEROIL PEARL L 60 | + 30 | 0.818 – 0.880 | 9.00 – 11.00 | - 18 | Passes |
| POWEROIL PEARL L 70 | + 30 | 0.818 – 0.880 | 11.00 – 13.00 | - 18 | Passes |
| POWEROIL PEARL L 85 | + 30 | 0.818 – 0.880 | 13.0 – 14.50 | - 15 | Passes |
| POWEROIL PEARL L 110 | + 30 | 0.818 – 0.880 | 21.00 – 24.0 | - 12 | Passes |
| POWEROIL PEARL M 150 | + 30 | 0.818 – 0.880 | 28.8 – 33.5 | - 12 | Passes |
| MINERAL OIL – U.S.P | | | | | |
| POWEROIL PEARL M 250 | + 30 | 0.845 – 0.905 | 41.4 – 50.6 | - 12 | Passes |
| POWEROIL PEARL H 350 | + 30 | 0.845 – 0.905 | 61.4 – 74.8 | - 9 | Passes |
| POWEROIL PEARL H 400 | + 30 | 0.845 – 0.905 | 75.0 – 80.0 | - 9 | Passes |
| POWEROIL PEARL H 500 | + 30 | 0.845 – 0.905 | 90.0 – 110.0 | - 9 | Passes |
| POWEROIL PEARL H 350 ULTIMA | + 30 | 0.855 – 0.870 | 67.0 – 74.0 | - 9 | Passes |
| POWEROIL PEARL H 500 ULTIMA | + 30 | 0.860 – 0.875 | 90.0 – 110.0 | - 9 | Passes |

Note: PEARL H 350 ULTIMA & PEARL H 500 ULTIMA Grades also Comply to Europe Regulation (EU) 10 / 2011 with the following Requirements of Kinematic Viscosity at 100°C - 8.5 cSt, Min.Average Molecular weight (ASTM D 2502) - 480 Min. & Hydrocarbon with less than 25 carbon - 5 % Max.



| Product | Saybolt Colour, Min. (ASTM D 156) | Relative Density at 20°C, (EP/BP) | Dynamic Viscosity at 20°C,m.Pas (EP/BP) | Kinematic Viscosity at 40° C, cSt (ASTM D445 / ASTM D 7042) | Pour Point, °C, Max. (ASTM D 97) | PAH, RCS, Solid Paraffins, UV Absorbance at 240 - 280 nM |
|--|--------------------------------------|---|---|--|--|---|
| LIGHT LIQUID PARAFFIN - E.P / B.P | | | | | | |
| POWEROIL PEARL L 85 | + 30 | 0.820 – 0.875 | 25 – 35 | 14.50 – 16.50 | - 15 | Passes |
| POWEROIL PEARL L 110 | + 30 | 0.820 – 0.875 | 36 – 45 | 21.00 – 24.00 | - 12 | Passes |
| POWEROIL PEARL M 150 | + 30 | 0.820 – 0.875 | 56 – 75 | 28.80 – 33.50 | - 12 | Passes |
| LIQUID PARAFFIN – E.P / B.P | | | | | | |
| POWEROIL PEARL H 350 | + 30 | 0.845 – 0.890 | 150 – 200 | 61.40 – 74.80 | - 9 | Passes |
| POWEROIL PEARL H 400 | + 30 | 0.845 – 0.890 | 200 – 230 | 75.00 – 80.00 | - 9 | Passes |
| LIQUID PARAFFIN – I.P | | | | | | |
| LIGHT LIQUID PARAFFIN – IP | + 30 | 0.820 – 0.880 | 25 – 80 | – | - 15 | Passes |
| LIQUID PARAFFIN – IP | + 30 | 0.860 – 0.904 | 110 – 230 | – | -15 | Passes |





TECHNICAL GRADE WHITE OILS - TYPICAL PROPERTIES

| Product | Saybolt Colour, Min. (ASTM D 156) | Density at 25°C, gm/ml (ASTM D 1298) | Kinematic Viscosity at 40°C, cSt (ASTM D 445 / ASTM D 445) | Pour Point, °C, Max. (ASTM D 97) | Flash Point °C, Min. (ASTM D 92) |
|----------------------------|--------------------------------------|--|---|--|--|
| WHITE OIL LIGHT | | | | | |
| POWEROIL TOPAZ L 50 | + 25 | 0.810 – 0.855 | 7.00 – 9.00 | - 15 | 150 |
| POWEROIL TOPAZ L 60 | + 25 | 0.810 – 0.860 | 9.00 – 11.00 | - 15 | 150 |
| POWEROIL TOPAZ L 70 | + 25 | 0.810 – 0.860 | 11.0 – 13.0 | - 15 | 150 |
| POWEROIL TOPAZ L 85 | + 25 | 0.810 – 0.860 | 12.0 – 16.0 | - 15 | 150 |
| POWEROIL TOPAZ L 110 | + 25 | 0.820 – 0.860 | 21.0 – 24.0 | - 12 | 170 |
| WHITE OIL MEDIUM | | | | | |
| POWEROIL TOPAZ M 150 | + 25 | 0.830 – 0.860 | 28.0 – 34.0 | - 12 | 180 |
| POWEROIL TOPAZ H 250 | + 25 | 0.840 – 0.860 | 41.0 – 50.0 | - 12 | 190 |
| WHITE OIL HEAVY | | | | | |
| POWEROIL TOPAZ H 350 | + 25 | 0.845 – 0.880 | 67.0 – 71.0 | - 9 | 200 |
| POWEROIL TOPAZ H 400 | + 25 | 0.845 – 0.880 | 75.0 – 80.0 | - 9 | 220 |
| POWEROIL TOPAZ H 500 | + 25 | 0.845 – 0.880 | 90.0 – 110.0 | - 9 | 220 |
| POWEROIL TOPAZ H 350 PRIME | + 30 | 0.845 – 0.870 | 66.0 – 71.0 | - 9 | 240 |
| POWEROIL TOPAZ H 350 PRIME | + 30 | 0.845 – 0.870 | 90.0 – 110.0 | - 9 | 250 |

Note: TOPAZ H 350 PRIME & TOPAZ H 500 PRIME Grades also Comply to Europe Regulation (EU) 10 / 2011 with the following Requirements of Kinematic Viscosity at 100° C - 8.5 cSt Min. Average Molecular weight (ASTM D 2502) - 480 Min. & Hydrocarbon with less than 25 carbon - 5 % Max.



POWEROIL®
Powering Ahead

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