



# White Oil Pharma

## Pharmaceutical White Oil

Premium quality, colorless, odorless, tasteless white oil, containing a food-grade inhibitor and meeting the purity standards and requirements of international and national authorities for pharmaceutical white oils.

### APPLICATIONS

- Medicinal and cosmetic applications
  - Manufacture of ointments, complexion creams, hair care products, laxatives, baby oils, and as a carrier for the preparation of curative drugs
- Food processing and packaging operations where oil used as a processing aid may be included in food or food packaging material, or direct contact between the oil and food or packaging materials may occur
  - Egg processing, meat and fish packaging, fruit and vegetable processing, dairy industry, brewing and bottling, food canning, sugar refining, and the manufacture of paper intended for food packaging
  - Hydraulic fluid, or bearing and gear lubricant
  - Compressors (ISO 68) handling air or gases (except oxygen), or carbon dioxide for carbonated beverages
  - Rust preventive for vats, tanks and machinery
- General industry applications
  - Plasticizer for hydrocarbon resins, process oil where extremely low sulfur content is required, textile industry lubricant, organic synthesis, animal husbandry etc
  - Compressors in refrigeration systems handling methyl chloride or sulfur dioxide

Not recommended for use in breathing air compressors

### KEY PROPERTIES

ISO Grade	15	32	46	68	100
Color, Saybolt	+30	+30	+30	+30	+30
Density, kg/L @ 25°C	0.850	0.870	0.880	0.880	0.869
Flash Point, PMCC, °C	188	204	214	230	264
Viscosity, mm <sup>2</sup> /s @ 40°C	15.0	31.8	46.0	68.0	104

### PERFORMANCE STANDARDS

- U.S. FDA CFR 178.3620(a), CFR 178.3570, CFR 172.878, CFR 573.680
- U.S. Pharmacopeia (USP) (ISO 46, 68, 100)
- U.S. National Formulary (NF) (ISO 15, 32)
- British Pharmacopoeia (BP)
- Deutsches Arzneibuch (DAB)
- Many other national Pharmacopeia

### BENEFITS

- ✦ **Exceeds international quality standards**  
Compliance with U.S. FDA and major national Pharmacopeia requirements ensures that the product meets the highest standards of purity for all medicinal and cosmetic applications, (even where ingestion by humans and animals is involved), and also for food processing and packaging operations.
- ✦ **Trouble-free operation**  
In general industrial applications, the U.S. FDA approved inhibitor enhances oxidation stability to resist the formation of gum and sludge deposits, and corrosive acidic by-products. Good lubricity of the highly refined white oil protects against wear, while good miscibility characteristics overcome potential problems in mixing with other petroleum oils, most animal or vegetable fats or oils, and waxes.
- ✦ **Prolonged service and shelf life**  
U.S. FDA approved inhibitor resists oxidation and resultant oil breakdown in service, and oil darkening in storage.

### ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Caltex Material Safety Data Sheet (MSDS) and Caltex Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit [www.caltexoils.com](http://www.caltexoils.com).

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This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.



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## **SERVICE CONSIDERATIONS**

The amount of oil that is allowed in foods and food packaging materials is usually limited by local regulations. It is the responsibility of the user to determine the limit of any particular product being processed and to ensure that this limit is not exceeded.

While the inclusion of an inhibitor in White Oil Pharma greatly extends shelf life, all white oils may darken and develop an odor if left in direct sunlight or stored at elevated temperatures. Accordingly, these products should be stored at room temperature or lower, and not kept in clear glass containers located in direct sunlight.