

OIL TECH

The Lubrication Specialists

TECHNICAL DATA SHEET

WHITE OIL ISO15 & ISO68

PRODUCT DESCRIPTION

White Oil ISO15 & ISO68 are white mineral oils specially processed and packaged to ensure full compliance with the purity standards of the US Pharmacopoeia (USP) and British Pharmacopoeia (BP). Both grade comply with US Food and Drug Administration (FDA) Regulation CFR 172.878 for light mineral oil that is permitted to be included, within restrictions, in foods and CFR 178.3620 (a) for mineral oil for use in non food articles that will come in contact with food.

Both grades are stabilised with an FDA approved inhibitor to improve shelf life.

APPLICATION

White Oil is recommended for a variety of applications in the pharmaceutical and food industries and for general industrial applications where pharmaceutical grade white oil is required. Typical applications include the following:

Pharmaceutical - Recommended for use in the manufacture of pharmaceutical and cosmetic preparations such as ointments, complexion creams, hair care products, laxatives, baby oils and as carries in the preparation of many curative drugs. Can also be used in many other application where direct human contact or ingestion occurs.

CAUTION: An orally administered mineral oil should not be used during pregnancy or for infants, except upon advice of a physician.

Food - Recommended for use in a wide variety of food processing and packaging operations where a lubricating oil used as a processing aid may be included in food or food packaging material, or where direct contact between the lubricating, hydraulic, or rust roofing oil and food or packaging materials may occur. Typical applications include egg processing, meat packaging, sugar refining, food canning and the manufacture of paper intended for food packaging.

They are particularly applicable as hydraulic fluids or as bearing and gear lubricants in food processing and packaging machinery. The ISO 68 viscosity grade is recommended for compressors handling air or gases (except oxygen) used in food processing or carbon dioxide used in the manufacture of carbonated beverages. Both grade can be used as rust preventives for vats, tanks and machinery in the food and beverage industries.

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

WHITE OIL (Cont)

General Industry - General industrial uses include: as a plasticiser for hydrocarbon resins, as a process oil where extremely low sulphur content are required and as lubricants for sewing, knitting, and cloth cutting machines where a stainless mineral oil is desired. The ISO 68 viscosity grade is suitable for compressor lubrication in refrigeration system operating on methyl chloride or sulphur dioxide. Other industrial uses include agricultural sprays, organic synthesis, plastics manufacture and animal husbandry.

SPECIAL HANDLING NOTE

While the inclusion of an inhibitor in White Oil greatly extends shelf life, all white oil may darken and develop an odour if exposed to direct sunlight or stored at high temperatures. Accordingly, these products should be stored at room temperature or lower, and clear containers should not be placed in locations such as window displays where they will receive direct sun exposure.

PERFORMANCE

- Colourless, odourless and tasteless
- Meets purity standards of BP, USP, USFDA and major national pharmacopeia.
- Resists oxidation and darkening in storage and has excellent shelf life due to the use of an FDA approved inhibitor.
- Resists gumming and acid and sludge formation.
- Good miscibility with other petroleum oils, most animal or vegetable fats or oils and waxes.
- Will not support bacteria or mould growth.

PERFORMANCE CHARACTERISTICS

British Pharmacopoeia (BP)

US Pharmacopoeia (USP)

US National Formulary (NF)

Deutsches Arzneibuch (DAB)

US Food & Drug Administration (FDA) Regulations CFR 172.878, 178.3620(a), 178.3570 and 573.680

Department of Primary Industries and Energy, Australian Quarantine and Inspection Service (AQIS) Type A Lubricant

WHITE OIL BP85 & BP350 (Cont)

TYPICAL INSPECTION

	BP 85	BP 350
ISO Viscosity Grade	15	68
Carbonisable Substance, BP	pass	pass
Colour, Saybolt	+30	+30
Density @ 15°C, kg/L	0.850	0.880
Flash Point, PMCC, °C	188	230
Neutrality, NF/USP	neutral	neutral
Pour Point, °C	-12	-12
Solid Paraffins, BP	pass	pass
Sulphur Compounds, NF/USP	negative	negative
Ultra Violet Absorbance 260-350nm	<0.10	<0.10
Viscosity, cSt @ 40°C	15.0	68.0
Taste/odour	none	none