



## PRODUCT & TECHNICAL DATA

# PRO FOOD GRADE OIL RANGE (VG 10 - 1000)

## PREMIUM QUALITY FOOD GRADE HYDRAULIC / CIRCULATING OIL

### DESCRIPTION

Pro Food Grade Oils are white mineral oils specially processed for the food, beverage and pharmaceutical industry where oils might be in contact with food, drinks, etc. The amount of oil permitted in foods and food packaging materials is usually limited by local regulations. Pro Food Grade Oils are colourless, tasteless and odourless. It also contains a food-grade inhibitor and meets the purity standards and requirements of international and national authorities.

### APPLICATIONS

Pro Food Grade Oils are recommended for a wide variety of applications in food industries, as well as beverage- and pharmaceutical industries. In pharmaceutical, it is mainly used in ointments, baby oils, hair care products, etc. where in the food industry it is used where direct contact between the lubricating, hydraulic or rust proofing oil and food or packaging materials may occur. Typical machinery where it can be used will include meat packaging machines, sugar refining, food canning, etc. For the beverage industry it will be used in certain pumps or hydraulics. Typical industries include wine farms, soft drink manufacturers, breweries, etc. Pro Food Grade Oils are also used in hydraulic systems, gearboxes, circulating systems (heat transfer fluid), for conveyors, slide-ways, dosage apparatus, etc – that might be in close contact with food and/or food packaging.

### PERFORMANCE LEVELS

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

### FEATURES AND ADVANTAGES

- Meets the highest standards of purity for all medicinal, cosmetic applications (even where ingestion by humans and animals is involved) and food processing and packaging applications.
- Good oxidation stability to resist the formation of gummy and sludge deposits and corrosive acidic by-products.
- Good lubricity of the highly refined white oil protects against wear.
- Good miscibility characteristics overcome potential problems in mixing with other petroleum oils.

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### PHYSICAL CHARACTERISTICS

ISO	10	15	22	32	46	68	100	150	220	320	460	680	1000
Density @ 20 °C, g/ml	0.840	0.840	0.840	0.840	0.842	0.842	0.842	0.845	0.845	0.845	0.847	0.847	0.850
Viscosity @ 40 °C, mm <sup>2</sup> /s	10	15	22	32	46	68	100	150	220	320	460	680	1000
Viscosity @ 100 °C, mm <sup>2</sup> /s	2.80	3.50	4.50	5.80	7.20	9.10	12.80	16.70	21.90	29.10	38.50	51.70	73.50
Viscosity Index	120	112	118	113	107	101	110	115	120	124	128	132	145
Flash Point, °C	>180	>200	>200	>200	>210	>220	>240	>240	>240	>240	>240	>240	>240
Pour Point, °C	<-25	<-25	<-20	<-15	<-15	<-15	<-10	<-10	<-10	<-5	<-5	<0	<0

### GENERAL ADVICE

Further information on all Pro Oil SA lubricants is available from any Pro Oil SA office or from:  
[www.prooil.co.za](http://www.prooil.co.za)

These characteristics are typical of current production.  
Whilst future production will conform to Pro Oil SA's specification, variations in these characteristics may occur.

#### Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Pro Oil SA representative.

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