



Progress with high
technology

MATSUMURA OIL CO., LTD.

O01001001H(E)



BARREL LUBE FG Series (Multipurpose oils for food machinery)

BARREL LUBE FG series are multipurpose oils for food machinery formulated with approved raw materials by FDA(Food and Drug Administration) and NSF(National Sanitation Foundation). BARREL LUBE FG series are based on a careful blend of highly refined mineral oil and selected additives chosen for their ability to meet the stringent requirements of the food and beverage industry.

1. Features

- (1) NSF H1-registered supporting process reliability.
- (2) Excellent anti-wear property.
- (3) Excellent resistance to corrosion and rust.
- (4) Excellent oxidation and thermal stability.
- (5) Lower oil consumption.

2. Applications

BARREL LUBE FG series are recommended for use in bearings, sideways and light duty gearboxes of food machinery within food and beverage processing and packing industry.

3. Typical properties

Property	BARREL LUBE			
	FG-32	FG-68	FG-100	
NSF Registration No.	144368	144369	144370	
Category Code	H1	H1	H1	
Density 15°C	g/cm ³	0.846	0.848	0.847
Flash Point (COC)	°C	244	258	260
Pour Point	°C	-15.0	-15.0	-15.0
Kinematic Viscosity 40°C	mm ² /s	32.0	68.0	100
Kinematic Viscosity 100°C	mm ² /s	5.87	10.6	14.4
Viscosity Index		129	145	149
Acid Number	mgKOH/g	0.35	0.35	0.60
Rust Characteristics 24h,60°C (artificial sea water)		Pass	Pass	Pass
Copper Strip Corrosion 100°C,3h		1	1	1
Water Separability 54°C	ml(min)	40-40-0(10)	40-40-0(10)	40-40-0(10)*
Color (ASTM)		L0.5	L0.5	L0.5
Four-Ball wear, Scar diameter (1200rpm,392.2N,75°C,60min)	mm	0.48	0.47	0.41
Base Oil		Highly refined mineral oil	Highly refined mineral oil	Highly refined mineral oil

* : 82°C

(2022.09)

●BARREL LUBE is registered trademark of Matsumura Oil Co., Ltd.

●The data in this document are not standard values. The data described in this document are not standard values and are subject to change without notice due to product improvements or specification changes.

●Company product information does not constitute a warranty that products are compatible with a specific or individual machine, equipment article, or application

●When using this product, be sure to test it beforehand at your company to confirm that it meets the conditions of use. The applications described herein are not guaranteed to be free from any patent infringement.

●Our H1 products have been developed and manufactured for Food industrial applications. If you wish to use our products in a special application, please test them beforehand and confirm their safety before use. Do not use this product for medical or implant applications.

●When using this product, please confirm the precautions for handling and storage, first aid, disposal, and other precautions in the Safety Data Sheet (SDS).

●Please contact the head office of Matsumura Oil Co., Ltd. if you wish to reprint this document.