



Progress with high
technology

MATSUMURA OIL CO., LTD.

G01001001J(E)



BARREL GEAR FG Series (Gear oils for food machinery)

BARREL GEAR FG series are gear oils for food machinery formulated with approved raw materials by FDA(Food and Drug Administration) and NSF(National Sanitation Foundation). BARREL GEAR FG series are based on a careful blend of highly refined mineral oil, polyalphaolefin 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 oxidation stability.
- (4) Lower oil consumption.

2. Applications

BARREL GEAR FG series are recommended for use in gearboxes within food and beverage processing and packing industry.

3. Typical properties

Property	BARREL GEAR				
	FG-150	FG-220	FG-320	FG-460	
NSF Registration No.	134931	134930	146960	134929	
Category Code	H1	H1	H1	H1	
Density 15°C	g/cm ³	0.870	0.869	0.868	0.867
Flash Point (COC)	°C	264	266	268	270
Pour Point	°C	-17.5	-17.5	-17.5	-17.5
Kinematic Viscosity 40°C	mm ² /s	150	220	320	460
Kinematic Viscosity 100°C	mm ² /s	16.2	22.3	30.8	42.6
Viscosity Index		113	123	133	144
Acid Number	mgKOH/g	0.60	0.60	0.60	0.60
Copper Strip Corrosion 100°C,3h		1	1	1	1
Color (ASTM)		L0.5	L0.5	L0.5	L0.5
Base Oil		Highly refined mineral oil/PAO	Highly refined mineral oil/PAO	Highly refined mineral oil/PAO	Highly refined mineral oil/PAO

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- 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.