

TECHNICAL DATA SHEET | GREASE

# Petronas Grease FG Series

*Advanced Approved Food Industry Grease*



Extreme  
Pressure



Heavy  
Loads



High  
Temperature



Lubrication  
System



Food  
Grade



**PETRONAS**

Engen is a  
member of the  
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## Description

PETRONAS Grease FG is a leading-edge high quality NLGI 2, Aluminium Complex, polymer thickened, multipurpose grease intended specifically for the lubrication of machinery used in the processing and packaging of food. It meets NSF (Former USDA 1998 H1 type) guidelines for greases used in applications where incidental food contact may occur and is manufactured using white oils and other ingredients which are permitted substances for the preparation of lubricants in terms of the FDA regulation 21 CFR 178.3570. It contains special food grade EP and anti-bacterial additive.

It is a white grease of smooth, tacky consistency and may be used in a wide variety of applications in the food processing and packaging industry.

## Application

PETRONAS Grease FG is designed specifically for the lubrication of food and sanitary machinery under a wide range of operating conditions with specific applications that include all enclosed Journal and anti-friction bearings, slides and cams, in-plant and mobile equipment handling food products and sanitary equipment where incidental food contact may occur. Typical applications include, bottlers, canners, seaming rolls, slicers, peelers, cutters, dicers, hydrostatic cookers, grain handling equipment, malting operations and fillers, packagers and wrappers, knives (skinning), tabletisers / capsulators, central lubrication systems.

Operating Temperature from -20°C to +150°C (max).

## Benefits & Features

- FDA approved ingredients.
- Meets NSF (Former USDA 1998 H1 type) guidelines.
- Excellent load carrying ability.
- Excellent resistance to water wash-out and water spray off resistance.
- Wide operating temperature range.
- Very good rust and oxidation inhibition.
- Superior shear stability.
- Balanced performance for wide range of industrial equipment.
- Controlled oil bleed.

## Performance Level

Meets or exceeds the following Industry Standards:

- DIN 51502, KPHC1,5N-40
- ISO 6743, ISO-L-XBCEB2
- NSF H1 Registered
- Halaal Certified
- Kosher Certified

With us you are Number One



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## Typical Physical Characteristics

PETRONAS GREASE FG SERIES				
PARAMETERS	METHODS	UNITS	TYPICAL VALUES	
Grease	-	-	FG 2/220	FG 2/550
DIN Classification	DIN 51502	-	KP2K-20	KP2K-20
ISO Classification	ISO 6743	-	ISO-L-XBCEB2	ISO-L-XBCEB2
NLGI Grade	ASTM D217	-	2	2
Thickener Type	-	-	Aluminium Complex	Aluminium Complex
Colour	Visual	-	White	White
Base Oil Type	-	-	Pharmaceutical White Oil	Pharmaceutical White Oil
Penetration, @ 25°C Worked	ASTM D217	0.1 mm	265 - 295	265 - 295
Dropping Point	IP 396	°C	270	270
Viscosity of Base Oil @ 40°C	ASTM D445	cSt	180	550 (with Polymer)
4-Ball Weld Load	DIN 51350:4	N	3000	6000
4-Ball Wear Scar 40kg/1hr	DIN 51350:5	mm	0.7	0.7
Density	IP PM-CS/03	g/ml	0.89	1.00
Oxidation Stability @ 100hrs	ASTM D942	kPa Drop	-	30

All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to PETRONAS' specification, variations in these characteristics may occur.

## Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water. For further detail regarding storage, safe handling, and disposal of product, please refers to product SDS.

Safety Data Sheets are available for all our products and should be only be consulted for appropriate information regarding storage, safe handling and disposal of the product. No responsibility shall be taken by either Engen or its subsidiaries and related holding corporation for any loss or injury or any direct, indirect, special, exemplary, consequential damages or any damages whatsoever, whether in action of contract, negligence or other tortuous action, in connection or resulting from abnormal use of the materials and/or information, from any failure to adhere to recommendations, or from hazards inherent in the nature of the materials and/or information.

All products, services and information supplied are under our standard conditions of sale. Please consult with any of our local representative in the event you require any further information.



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