

**Technical Data Sheet**

Revision Date: 07.07.2025

# PETRONAS GREASE FG

## Aluminium Complex Food Grade Grease

PETRONAS Grease FG is an Aluminium complex grease specially developed for lubrication of machinery used in food processing and packaging industries.

Formulated with white base oils enhanced with Aluminium complex soap, extreme pressure, anti-oxidant, anti-rust, corrosion inhibitor and anti-bacterial additives. PETRONAS Grease FG provides excellent high temperature performance, high load carrying capabilities and excellent adhesiveness qualities which makes it ideal for components where there is oscillating or rotating motion.

PETRONAS Grease FG meets or exceeds key industrial specifications.

### Applications

PETRONAS Grease FG is recommended for use in:

- lubrication of equipment in the food processing industries with a wide range of operating conditions in applications that include all enclosed Journal and anti-friction bearings, slides and cams
- in plant and mobile equipment handling food products where food contact will occur
- typical applications include, bottlers, canners, seaming rolls, slicers, peelers, cutters, dicers, hydrostatic cookers, grain handling equipment, malting operations and packaging equipment

Note: PETRONAS Grease FG is recommended for operating temperature range of -20°C to +120°C (Max. +130°C).

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### Features and Benefits

Features	Benefits
Food grade approval	Designed specifically for the lubrication of food processing machinery under a wide range of operating conditions
Excellent pumpability	Excellent performance where low temperature performance is required
Excellent load carrying capacity	Contains special additives which enables the grease to withstand heavy loads without losing the lubricant film
Excellent rust & corrosion protection	Protects bearing surfaces against rust and corrosion, even when the grease is contaminated with water
Excellent resistance to water wash-out and water spray off	Equipment protection and good lubrication even in presence of water
High thermal and oxidation stability	Has good oxidation resistance and can withstand high operating temperatures without hardening or forming bearing deposits
Excellent oil bleed control	Has an excellent controlled oil bleed and does not separate under storage

[www.pli-petronas.com](http://www.pli-petronas.com)

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### Typical Properties

Characteristic	Method	Specification	FG
Thickener Type	-	Aluminium Complex	Aluminium Complex
NLGI	ASTM D217	2	2
Color	Visual	White	White
Worked Penetration, mm/10	ASTM D217	265 - 295	282
Oil Separation, Mass %, Max.	ASTM D1742	3	2
Dropping Point, °C, Min.	ASTM D2265	230	240
Four Ball Wear, mm, Max.	ASTM D2266	0,70	0,70
Four Ball EP Weld Point, kgf, Min.	ASTM D2596	500	500
SKF R2F B at 120°C	SKF	Pass	Pass
Roll Stability, % of Penetration Change, Max.	ASTM D1831	10	5
Water Washout at 79°C, %, Max.	ASTM D1264	10	5
Water resistance at 90°C, Max.	DIN 51807:1	1	0
Emcor Test (Dist. Water), Max.	ASTM D6138	1-1	0-0
Base Oil Viscosity @40°C, cSt	ASTM D445	540 - 560	550

All technical data are provided for reference only / SS is available upon request including quality control limits

### Performance Levels

- DIN 51502 KP2K-20
- ISO 12924 L-XB(F)CDB2
- NSF Registration No. 172369

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### 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 refer to product SDS or contact us at: [www.pli-petronas.com](http://www.pli-petronas.com).

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