

PETRONAS Fluid Technology Soluti≽ns™

YOUR PARTNER FOR PROGRESS

PETRONAS Lubricants International (PLI) is the global lubricant division of PETRONAS, one of the most successful petrochemical companies in the world.

Our mission is to deliver you proven technology and business-enhancing services. We do this by utilising our 100 years of experience creating innovative products that maximise your productivity. With a presence in 128 countries, PETRONAS continues to push the boundaries of research and technology, in order to help you stay ahead of your competitors.

At PETRONAS, we know that efficient lubrication is only as good as the people, equipment and products who do the work. This certainly holds true for Industrial Greases.

Understanding the root causes of problems, deciding on solutions, then understanding the optimal products that deliver cost-effective outcomes is critical when it comes to grease applications. That's why PETRONAS has developed a strong but concise range of grease products. To help you deliver effective lubrication whatever the working conditions, while removing complexity from your daily operations by giving you fewer but better options.

Our range is created by experts that have walked in your shoes, who understand the challenges you face. With more and more experienced professionals retiring – and taking with them decades of experience – you can rely on our experts to deliver the right solution with the right product.





Greases	Description	NLGI Grade	Central Lubrication	Corrosion Protection	Extreme Pressure	Food Grade	Heavy Loads	High Speed	High Temperature	Multi- Purpose	Low Temperature	RockDrill Grease	Synthetic / Semi-Synthetic	Special Application	Water resistant	
Aluminium	Aluminium Complex															
PETRONAS Grease FG	PETRONAS Grease FG is an Aluminium complex grease specially developed for lubrication of machinery used in food processing and packaging industries.	2	٥		٥	٥	٥		٥						(0
Calcium																
PETRONAS Grease Ca 00	PETRONAS Grease Ca 00 is a calcium grease specially developed for machine tools used in mining operations.	e 00		٥								٥		٥	٥	J
Calcium Sı	ulfonate															
PETRONAS Grease CaSX	PETRONAS Grease CaSX is a Calcium Sulphonate complex grease specially developed for both industrial, marine and off-road applications.	2		٥			٥		٥	٥					()
Clay																
PETRONAS Grease Clay MEP	PETRONAS Grease CLAY MEP is a high temperature Organophilic Bentonite grease with solid lubricant specially developed for industrial equipment where the capability of conventional greases may be exceeded by either continuous high temperature or cyclic conditions ranging from normal to extremely high temperatures.	2	٥		٥				٥						8	0
PETRONAS Grease Clay MG	PETRONAS Grease CLAY MG is a high temperature Organophilic Bentonite grease with solid lubricant specially developed for heavy duty industrial equipment with slow speed plain bearings where the capability of conventional greases may be exceeded by either continuous high temperature or cyclic conditions from normal to extremely high temperatures.				٥		٥		٥					٥	٥)
Lithium																0
PETRONAS Grease Li 2	PETRONAS Grease Li 2 is a non-EP Lithium grease specially developed for industrial general-purpose applications														٥	0
PETRONAS Grease Li AS	PETRONAS Grease Li AS is an extreme pressure Lithium grease with anti-seize compound specially developed for general maintenance and installation procedures used in industrial, mining and marine applications.	e 1.5														,

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Lithium															
PETRONAS Grease Li EP 2	PETRONAS Grease Li EP 2 is an extreme pressure Lithium grease specially developed for multipurpose applications, lubrication of both plain and anti-friction bearings even where severe or shock loads are experienced.	2			٥					٥					٥
PETRONAS Grease Li PT	PETRONAS Grease Li PT is a Lithium grease specially developed as a post tensioning grease within the construction industry.	1.5												٥	ه .
PETRONAS Grease Tutela SP	PETRONAS Grease Tutela SP is an extreme pressure Lithium grease specially developed for automotive applications.	2		٥	٥					٥					٥
Lithium Ca	lcium														
PETRONAS Grease LiCa GEP 0	PETRONAS Grease LiCa GEP 0 is an extreme pressure Lithium Calcium grease with solid additives specially developed for lubrication of open gears racks, chains, wire ropes, support rollers slides and sprockets.				٥		٥								8
PETRONAS Grease LiCa GEP 2.5	PETRONAS Grease LiCa GEP 2.5 is an extreme pressure Lithium Calcium grease with solid additives specially developed for lubrication of open gears, racks, chains, wire ropes, support rollers, slides and sprockets.	2.5			٥		٥								٥
PETRONAS Grease LiCa MG HL	PETRONAS Grease LiCa MG HL is an extreme pressure Lithium Calcium grease with dual solid additives and film thickening polymers to improve boundary lubrication.	2			٥		٥								٥
PETRONAS Grease LiCa MG XHL	PETRONAS Grease LiCa MG XHL is an extreme pressure Lithium Calcium grease with dual solid friction reducing additives specially developed for applications requiring heavy duty greas for long-term of use.				٥		٥								8
PETRONAS Grease LiCa TMG	PETRONAS Grease LiCa TMG is a Lithiur Calcium grease specially developed for lubricate the traction motor gear cases of all locomotives including the latest high horsepower units.				٥		٥								٥
Lithium Co	omplex														
PETRONAS Grease LIX EP 2 / 170	PETRONAS Grease LiX EP 2/170 is an extreme pressure Lithium complex grease specifically developed for commercial vehicle applications and a wide variety of industry applications.	2		٥	٥				٥						

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Lithium Complex															
PETRONAS Grease LIX EP 2/380	PETRONAS Grease LiX EP 2/380 is an extreme pressure Lithium complex grease specifically developed for high temperature general purpose industrial applications.	2		٥	٥		٥		٥						٥
PETRONAS Grease LIX MEP	PETRONAS Grease LiX MEP is an extreme pressure Lithium complex grease with solid additives specially developed for lubrication of heavy duty applications where good adhesive properties are required.	2													0
PETRONAS Grease LiX Syn 1/1500	PETRONAS Grease LiX SYN 1/1500 is a synthetic Lithium complex grease specially developed for heavily loaded bearings in low speed applications, at elevated temperatures, in wet and corrosive environments.	1		٥	٥		٥		٥				٥		
PETRONAS Grease LiX Syn 2/100	PETRONAS Grease LiX SYN 2/100 is a synthetic Lithium complex grease specially developed for heavily loaded bearings at elevated temperatures, in wet and corrosive environments.	2		٥	٥			٥	٥		٥		٥		
PETRONAS Grease LiX Syn 2/220	PETRONAS Grease LiX SYN 2/220 is a synthetic Lithium complex grease specially developed for heavily loaded bearings at elevated temperatures, in wet and corrosive environments.	2		٥	٥				٥	٥	٥		٥		
PETRONAS Grease LiX Syn 2/460	PETRONAS Grease LiX SYN 2/460 is a synthetic Lithium complex grease specially developed for heavily loaded bearings at elevated temperatures, in wet and corrosive environments.	2		٥	٥		٥		٥				٥		0
PETRONAS Grease Tutela WB	PETRONAS Grease Tutela WB is a extreme pressure Lithium complex grease specially developed for the transport industry and its wheel bearing applications.	2.5		٥	٥				٥						٥
Polyethele	ne														
PETRONAS Grease PE HS	PETRONAS Grease PE HS is a Polyethylene grease specially developed to withstand the high centrifugal forces created by rotating couplings.	1			٥		٥							٥	
Polyurea															
PETRONAS Grease PU	PETRONAS Grease PU is a Polyurea grease specially developed for lubrication of electric motor bearings, and high-speed pumps.	2						٥	٥					٥	

Grease Compatibility Charts



With the great variety of greases found on the market, it is important to know whether or not there may be a compatibility issue before a new grease is introduced in the application. Compatibility depends on whether or not the thickener systems and/or base oils are compatible. In rare cases there can be problems between different additives, but it seldom destroys the thickener matrix.

When mixing two incompatible greases, two things can occur:

- Softening. The components are incompatible and the soap structures break down. The result is a high degree of leakage which can lead to starvation in the bearing and failure.
- Stiffening. This is a rare reaction but can ultimately lead to equipment failure

The most common way of testing compatibility is to run the prolonged penetration test (10.000 strokes). The difference in penetration is then measured. The penetration test results will indicate the cleaning procedure that needs to take place.

\triangle Penetration	Compatibility	Cleaning
0-10	Totally Compatible	No Cleaning
10-30	Compatible	Swift Cleaning
30-50	Limited Compatibility	Normal Cleaning
>50	Not Compatible	Total Cleaning

The compatibility overview should be considered as a guideline.

THICKENER	Aluminium Complex	Barium Complex	Hydrated Calcium	Anhydrous Calcium	Calcium Complex	Calcium Sulphonate Complex	Clay	Lithium	Lithium Complex	Polyurea	Sodium
Aluminium Complex	•	•	0	•	•	0	0	0	•	•	0
Barium Complex	•	•	•	•	0	•	•	•	•	•	•
Hydrated Calcium	0	•	•	•	•	•	•	•	•	•	•
Anhydrous Calcium	•	•	•	•	•	•	•	•	•	0	0
Calcium Complex	•	0	•	•	•	•	•	•	•	•	•
Calcium Sulphonate Complex	0	•	•	•	•	•	0	•	•	•	0
Clay	0	•	•	•	•	0	•	•	0	•	•
Lithium	0	•	•	•	•	•	•	•	•	•	0
Lithium Complex	•	•	•	•	•	•	0	•	•	•	•
Polyurea	•	•	•	0	•	•	•	•	•	•	•
Sodium	0	•	•	0	•	0	•	0	•	•	•

BASE OIL	Ester	Mineral Oil	Polyalpha- olefin	Polyglycol	PFPE	Polyphenil- ether	Silicone: Methyl	Silicone: Phenyl
Ester	•	•	•	•	0	•	0	•
Mineral Oil	•	•	•	0	0	•	0	•
Polyalphaolefin	•	•	•	0	0	•	0	•
Polyglycol	•	0	0	•	0	0	0	0
PFPE	0	0	0	0	•	0	0	0
Polyphenylether	•	•	•	0	0	•	0	•
Silicone: Methyl	0	0	0	0	0	0	•	•
Silicone: Phenyl	•	•	•	0	0	•	•	•

KEY:

- ♦ Compatible
- Requires Testing
- Incompatible





PROVEN EXPERTS, ALWAYS READY TO HELP!

At the heart of our services, our experts strive to give you the peace-of-mind you're looking for.

Partner with us and take your business to the next level.

For more inforn	iation, p	olease c	ontac
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