



ZKL Bearings (India) Pvt. Ltd.

Authorised Distributor



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## ZKL Bearing Grease



For smooth, trouble-free, more efficient operations





### It's not just smooth talk...

ZKL's worldwide and India-wide reputation as makers of Quality Bearings & Accessories for diverse applications is only matched by the research and development of tools, instruments and support products such as lubricants, all designed to enhance reliability and cost-efficiency.



Practical experience helped ZKL find innovative solutions across the spectrum of industries. And as trust and confidence grew in the ZKL name across markets and amongst customers – ZKL became a "Preferred Brand".



In other words, ZKL's Brand Power grew on fundamentals, not just based on smooth talk and fast claims.



### Proper Bearing Lubrication may be your next competitive edge

Whether it is installation, environment or maintenance – the only way to ensure smooth, trouble-free, high-efficiency bearing operation and extended bearing life – is to use the specially formulated range of **Bearing Greases - from ZKL.**

#### How do "you" gain?

- Your machine uptime increases
- Your operating costs 'fall'
- Your machine efficiency is 'maximized'
- Your 'profits' travel north
- Your "peace-of-mind" is ensured.

#### What are the "safeguards" you enjoy?

- ZKL greases offer comprehensive insurance against wrong or improper lubrication leading to "increased bearing failure rate"
- ZKL safeguards your need for specially formulated lubes for specialty bearing applications
- ZKL 'protects' your bearings no matter what stress your bearings undergo – varying loads, speed, temperature or environmental conditions



## ZKL Grease

– A range to match a range of applications

Just as ZKL Bearings & Accessories are manufactured to match diverse applications in diverse areas – ZKL Greases are formulated to meet the most exacting performance and protection parameters in all such areas.



## ZKL HI-TEMP – Aluminium Complex Grease

The Aluminium Complex Grease is a lubricant suitable for all services. For that reason it contains elements that give the character of extreme pressure, as well as additives to avoid oxidation and rust, obtaining a grease with a very good stability and resistance to wash.

**Characteristics :** Hi temperature resistance and Aqua repellence

### Chemical Properties

Aluminium complex soap:	8-10%
Mineral Oil viscosity:	200 cSt
EP Additive:	yes
Antirust and Antioxidant:	yes
Adhesive:	by request

### Physical Properties

Work Temperature range:	-10°C/240°C
Penetration ASTM D77:	260/270
Drop point:	230°C minimum
Colour:	Dark Amber
Texture:	Smooth, creamy
Alkalinity:	Free
NLGI Grade:	No. 2



## ZKL PFG – Non Toxic Lubricant Grease



The composition of these grease is formulated with non toxic substances. Those are detailed below:

### Chemical Properties

Base oil:	Pure Vaseline Pharmacopoeia (USA)
Viscosity:	95 cSt
Impurities:	Free

**Thickener** : Wacker HDK (Extremely high chemical purity) : 99.8% SiO<sub>2</sub>. (Data obtain in "Wacker Silicones" - Germany)

There is no danger of Silicosis formation.

The use of HDK in food, Pharmacological products and cosmetics is allowed according to the actual law.

### Physical Properties

Aspect:	Creamy paste, odorless
Colour:	White or transparent
Penetration:	NLGI 2

### Application

Generally used in rails and conveyor belts or in machineries of the Food Industry.



## ZKL RG – Multipurpose Calcium Red Grease

The Calcium Red Grease is elaborated basically with Calcium Soap and high quality Refined Mineral Oil, plus additives such as: antioxidants, antirust and others. It has a big resistance to water and a very good adherence.

### Properties

Calcium soap:	13%
Mineral oil viscosity:	100 cSt
Penetration ASTM D77 1/10 mm:	278 (+-5) / 285 (+-5)
Drop point:	85°C minimum
Colour:	Red
Texture:	Smooth, Creamy
NLGI Grade:	No. 2

**Applications** : Bearings lubrication, Chassis, frames and water pumps oiling.



## ZKL MoS2 – Lithium & Molybdenum Grease

MOS2 is Lithium soap grease with Molybdenum disulphide as an additive. It is used when the grease is exposed to high temperatures and big charges. It has the ability to reduce the friction coefficient. The addition of Molybdenum disulphide gives to the grease the property of leave a thin layer that guarantee the lubrication.

### Properties

Thickener:	Lithium Soap
Work temperature range:	-30°C/130°C (It could reach 150°C)
Penetration:	2 NLGI ASTM 217
Drop point:	190°C ASTM 566
Colour:	Dark grey
Water resistance:	Good
Molybdenum disulphide:	1% to 3% (Hi-resistance)
Base oil:	Mineral
Viscosity:	150 cSt

**Applications :** Agriculture, Automobile Industry, Mining Industry, Bearings, Suspension system, Chains, Machinery, Transmission System, and places where long periods of lubrication are required.

**Safety :** It doesn't prevent risk if it is used for the recommended applications. Agent extinguisher recommendable - Chemical foam or powder, DO NOT USE WATER. Inflammation point higher than environment temperature.



## ZKL Lithium Grease Alabama E/P No. 2

### Chemical Properties

Lithium soap:	7-8%
Mineral oil viscosity:	110 cSt
EP Additive:	yes
Antirust and Antioxidant:	yes

### Physical Properties

Work temperature range:	-15°C to 160°/170°C
Drop point:	180°C minimum
Colour:	Natural
Texture:	Smooth, Creamy
Alkalinity:	Free - Nil
NLGI Grade:	No.2

**Application :** Multipurpose in Automobile Industry, Bearings.

**Safety and Precautions :** In contact with the skin it doesn't produce irritation or other inconveniences.

**Self Ignition Temperature :** 280°C

**Explosion Risk :** Nil

**Agent Extinguisher Recommendable :** Chemical Foam, Do not use water

**Decomposition of other lubricant products :** Does not occur





## ZKL Grease Interchange guide

ZKL PFG (FG1) H1 Non-Toxic Grease	ZKL Lithium Alabama Grease	ZKL MoS2 Grease	ZKL Hi-Temperature Aluminium Complex Grease
SKF LGFP2 FAG Aracrol FOOD2 Timken Food Safe Grease	Castrol Longtime PD FAG Arcanol Multi2 SKF LGMT2 Timken Multi-Use Lithium Grease	SKF LGHP Timken Pillow Block Grease Mobilgrease AW/Z	SKF LGEP2 FAG Load 220" Timken Premium All purpose

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