

# Engen Premium 3

## Premium Industrial Lithium Grease



Corrosion  
Protection



Water  
Resistant



Multipurpose



**PETRONAS**

Engen is a  
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## Description

Premium 3 is a premium quality multipurpose industrial grease of NLGI 3 consistency. It is formulated using medium viscosity mineral oil, Lithium 12 hydroxystearate soap and fortified with additives to enhance oxidation stability, prevent rust and reduce wear.

Premium 3 has very high chemical stability, structural stability, and good resistance to water washing.

## Application

Premium 3 are recommended for anti-friction bearings including the rotating outer race and vertical shaft configurations but can also be used in plain bearings up to 3600 r/min., machine tools and a variety of marine applications. Their low starting torque characteristics make them ideal greases for electric motor bearings. Premium 3 grease is mainly recommended for applications where maximum protection against penetration of water or solid contaminants is required. Operating temperature range from -12°C to +130°C.

## Benefits & Features

- Reduced leakage.
- Long service life.
- Multipurpose convenience.
- Excellent resistance to oxidation.
- Good anti-wear protection.
- Approved by major equipment builders.
- Effective protection against rust and corrosion.

## Performance Level

Meets or exceeds the following Industry Standards:

- DIN 51502, K3K-30
- Exceeds SABS 1851 Grease Specification and meets Concawe DPD required guidelines



## Typical Physical Characteristics

ENGNE PREMIUM 3			
PARAMETERS	METHODS	UNITS	TYPICAL VALUES
DIN Classification	DIN 51502	-	K3K-30
NLGI Grade	ASTM D217	-	3
Thickener Type	-	-	Lithium
Colour	Visual	-	Brown
Penetration, @ 25°C Worked	ASTM D217	0.1 mm	245
Dropping Point	IP 396	°C	194
Viscosity of Base Oil @ 40°C	ASTM D445	cSt	120
4-Ball Weld Load	DIN 51350:4	N	2800
4-Ball Wear Scar 40kg/1hr	DIN 51350:5	mm	0.5
Timken OK Load	IP 326	Lbs	35
Oil Separation	ASTM D 1742	%	5
20,000 Strokes Worked Penetration	ASTM D217	% Change	10
Shell Roll Stability – 24hrs	ASTM D1831	% Change	10
Density	IP PM-CS/03	g/ml	0.9
Wheel Bearing Leakage @ 105°C	ASTM D1263	%	5
Copper Corrosion	ASTM D4048	-	1A
Oxidation Stability @ 100hrs	ASTM D942	kPa Drop	50

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

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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.

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.

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