

# OGCPLUS-6000

## Heavy-Duty Load Carrying Grease for Large Open Gears

### Product Description

OGCPLUS high-performance water-resistant lubricating grease formulated with finely dispersed graphite, MoS<sub>2</sub> and with High Grade Synthetic Polymers which delivers EP properties. It is based on unique thickener chemistry with excellent adhesion and resistance to "fling-off" under extreme conditions. The product is formulated to be readily pumpable for good lubrication distribution and easily drainable. OGCPLUS is the open gear lubricant of choice for mills and kilns in Mineral processing, Power generation, Steel, and Cement industries

### APPLICATIONS

OGCPLUS is designed for the lubrication of large, slow to medium speed, heavily loaded gears in heavy-duty applications.

NLGI 00 can conveniently applied by spray on gear teeth. Also suitable for use in a wide variety of industrial sectors including mining industries, including those that operate at high temperatures, for example, ring gears on cement kilns and ball mills steel, cement, paper, Sag mills, Rod mills, Balling discs, Dryers, Quenchers, Mixers and chemical applications.

### Benefits

- Reliable lubricant film formation over wide range of service temperatures -10 to 200 °C.
- Thick, high pressure lubricant film owing to high viscosity base oil.
- Special additive package for low consumption rate
- Forms a 'dry', dust-repellant lubricating film up to 500 °C.
- Superior protection against wear and reduced gear replacement costs.
- Anti-wear and extreme pressure additives provide unparalleled protection in the most heavily loaded zones of gear tooth mesh.
- No build-up in gear tooth roots.
- Drains freely from gear guards.
- Industry-leading FZG wear test result

**PETRELPLUS INC.**

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**Petrelplus<sup>+</sup>**

## Typical Properties

OGCPLUS	Test Method	NLGI 00
Appearance/Colour	Visual	Viscous/Black
Thickener	N.A	Aluminum Complex
Specific Gravity		0.94
Base Oil Kinematic Viscosity @40 <sup>0</sup> C, cSt @100 <sup>0</sup> C, cSt	ASTM D-445	6000 1600
Worked Penetration @250°C,(60x)	ASTM D-217	400-430
Flash Point, °C (min)	ASTM D-92	>121
Corrosion Prevention, Rating	ASTM D-1743	Passes
Solid Lubricant	N.A	Yes (graphite)
Four-Ball Wear Test,Scar Diameter, mm	ASTM D-2266	0.5
4-Ball Extreme Pressure Test, Weld Point, kgf,	ASTM D-2596	800
Load Wear Index	ASTM D 2596	120
Specific Mass Loss	Mg/k Wh	<0.1
Film Life Test	Minutes	Minimum 25
Working Temperature Range°C	FZG Test	-10 to 200

**Available Packs: -18,180 Kg.**

**Shelf Life – 36 Months from the manufacturing.**

\*All related specifications are meets or exceeds.

Due to continual product research and development, the information contained herein is subject to change without notification.

Typical Properties may vary slightly. The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product** Grease for Large Open Gears  
OGCPLUS-6000

**Supplier** Petrelplus Inc.  
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## 2. COMPOSITION

Substance/Mixture- Mixture

## 3. HAZARDS IDENTIFICATION

Not classified as hazardous.

## 4. FIRST-AID MEASURES

### RESPIRATORY SYSTEM

Remove to fresh air and get medical attention.

### INGESTION

Do not induce vomiting. Wash mouth out with water and obtain medical attention.

### EYES

Rinse immediately with plenty of water for at least 10 minutes. Get Medical Attention.

### SKIN

Remove contaminated clothing. Wash affected area with soap and water, get medical attention.

## 5. FIRE-FIGHTING METHODS

Suitable extinguishing media

In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable extinguishing media

Do not use water jet.

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

None expected.

## 6. ACCIDENTAL RELEASE MEASURE

Contain and absorb in sand or earth. Ensure no material enters drains or water courses. Dispose of as solid waste in accordance with the relevant waste disposal regulations.

For Non- Emergency Personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

## 7. STORAGE AND HANDLING

Storage 1: Store in delivery packs in a cool dry place.

Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**HANDLING** At ambient temperatures wear gloves overalls and eye protection. The work area should be adequately ventilated. No eating drinking or smoking in the work area.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Standard: The substance with exposure limit is: Notation 1: Exposure Standard: 2nd substance with exposure limit is: Notation 2:

### PERSONAL PROTECTION

Respiratory Protection: Type of Cartridge (if Applicable): Eye Protection: Safety Spectacles Hand Protection: Gloves butyl or nitrile rubber Industrial Hygiene: No eating drinking or smoking in the work area Ventilation: At room temperature handle in a well-ventilated area.

. Use exhaust ventilation if exposure to flume or aerosol can occur.

**PROTECTION AGAINST FIRE AND EXPLOSION** Combustible but not readily ignited. No explosion hazard.

**EC SAFETY PHRASES** Not classified as hazardous.

## 9. TYPICAL PROPERTIES :

Colour: Greyish

Flash point: >120Temperature°C:-10 to 200 NLGIgrade:00

Base Oil Kinematic

Viscosity@40<sup>0</sup> C, cSt: 6000

## 10. STABILITY AND REACTIVITY

HAZARDOUS REACTIONS

Comments

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition produces noxious fumes.

## 11. TOXICOLOGICAL INFORMATION

LD50 Acute Oral Toxicity:> 5000: mg/Kg:Rat

LC50 Acute Inhalation: mg/1:

Eye Irritation: No: Rabbit Skin Irritation: No.: Rabbit Sensation: No:

Further Information: Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, and Inhalation.

## 12. ECOLOGICAL INFORMATION

LC50 (96 Hour): mg/1

EC50 (24 Hour): mg/1

Biodegradability (Coupled units):

Toxicity: No testing has been performed by the manufacturer.

Persistence and degradability: not expected to be rapidly degradable.

Mobility in soil:

Soil/water partition coefficient: Not available

Mobility: Non-Volatile. Grease insoluble in water.

Other adverse effects: No known significant effects or critical hazards.

## 13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**14. TRANSPORT INFORMATION**

Not classified  
PackingGroups:IATA-DGR  
ClassNo.:Notclassified  
T REMCARD: Not Classified

RID/ADRClassNo.:Not classified  
Other Information.

**15. REGULATORY INFORMATION**

Classification and labeling according to EC Directives 67/548

Not classified as hazardous.

EC Risk Phrases

Not classified as hazardous.

Other Hazardous

EC Safety Phrases

Not classified as hazardous

This product can expose you to Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm.

**16. OTHER INFORMATION: PRODUCT SAFETY**

For safety reasons, it is IMPERATIVE that customer: -

Ensure that all those within their control who use the products are supplied with all relevant information contained within the Material Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions or warning.