

## LCG 1080 LOW CURRENT GREASE

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### Product Description

LOW CURRENT GREASE is developed to offer enhanced electrical performance for low current switches as well as offering desirable mechanical properties. The unique physical properties of the synthetic base oil, combined with selected additives, provide outstanding protection against wear, rust, corrosion, and high-temperature degradation.

### Applications

The main applications for LCG include low current column switches, rocker switches and push-push switches. LCG has been specifically designed as a lubricant to ensure the low and stable electrical contact resistance across mating metal surfaces, by reducing harmful arcing and increasing the effective surface area of the switch. However, due the outstanding nature of its mechanical and plastic compatibility properties, it may also be used as a purely mechanical lubricant for plastic / plastic and plastic / metal interfaces.

### Benefits

- Very low contact resistance; ideal for low current switches.
- Excellent plastics compatibility.
- Suitable with sensitive plastics (ABS/PC), testing is always advised.
- Enhances quality and lifetime of switch.
- Excellent mechanical properties providing smooth operation.
- Provides optimal mechanical resistance and reduces electrical background noise.

## Typical Properties

Color	Orange
Density	0.85
Temperature Range (°C)	-45 to+130
Evaporation Weight Loss (% 7 days @ 100°C)	0.2
Copper Strip Corrosion (IP154 / ISO 2160)	≤1b
Drop Point (IP32 / ISO 2176 (°C)	200
Cone Penetration Worked (ASTM D217, 60 strokes @ 20°C)	320
Cone Penetration Un-worked (ASTM D 217 @ 20°C)	300
Cone Penetration Un-worked (ASTM D 217 @ -40°C)	230
Consistency (NLGI)	1
Fließdruck (Flow Pressure) (DIN 51805, mbar @ -40°C)	300
Oil Bleed / Separation (IP121)	5%
Silver Corrosion (DIN 51759, 3hrs @100°C)	No change
Plastic Compatibility - ABS	Test
Plastic Compatibility - PC	Test
Thickener	Lithium complex soap
UV Trace	Yes
Base Oil Type	PAO/ Complex Ester
Pour Point (ASTM D 97 (°C))	-54
Flash Point (COC ASTM D 92 (°C)	>200

### Available Packs

- **50gm, 100gm and 200gm Tubes**
- **1 kg, 5 kg and 180 kg.**

### Shelf Life – 36 Months from the Manufacturing month

\* 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.

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product**                    **LOW CURRENT GREASE**  
**Supplier**                    **PETRELPLUS INC.**

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 Call # +91 22 6216 7072  
 (Monday to Friday)  
 Cell # +91 93522 25457  
[marketing@petrelplus.com](mailto:marketing@petrelplus.com)  
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**2. COMPOSITION**

No harmful substances. Composition of Synthetic (PAO) hydrocarbon base oil, Complex ester, Lithium Complex soap and proprietary additives.

**3. HAZARDS IDENTIFICATION**

**FIRE**                            -Flammable at high temperature.

**HEALTH**

Eye contact                    -May cause mild irritation to the eyes upon direct contact.  
 Skin contact                    -Prolonged contact may defat the skin or can cause dermatitis.  
 Inhalation                      -hazards.  
 Ingestion                        -Harmful if swallowed.

**4. FIRST-AID MEASURES**

Inhalation                      -Remove person to fresh air. Seek medical help if discomfort persists.  
 Ingestion                        -Do not induce vomiting. Seek medical support.  
 Skin Contact                    -Immediately flush skin with plenty of water for at least 15 minutes.  
 Eye Contact                      -Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally.

**5. FIRE-FIGHTING METHODS**

Extinguishing media            -Use dry chemical powder or carbon di – oxide or foam.  
 Special protective equipment -Positive pressure self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURE**

Personal protection            - Adequate ventilation, gloves, goggles, overalls and boots.  
 Environmental precautions    - Avoid entry into water courses.  
 Clean up method                - Absorb on inert material.

**7. STORAGE AND HANDLING**

Handling                        - Impervious gloves & eye protection ensure good ventilation. Keep away from source of ignition.  
 Storage                         - Store in a cool & dry place.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

Respiratory protection        - Not required under normal conditions.  
 Skin/hand protection         - Impervious gloves, overalls, and boots.  
 Eye protection                 - Use Goggles

**9. TYPICAL PROPERTIES**

Color                             - Orange  
 Thickener                       - Lithium Complex  
 Drop Point, °C                 - 200  
 NLGI                               - 1

**10. STABILITY AND REACTIVITY**

Stability	- Stable
Conditions to avoid	- Excessive temperatures
Materials to avoid	- Strong oxidizers
Hazardous decomposition products	- Oxides of carbon and nitrogen

**11. TOXICOLOGICAL INFORMATION**

Skin contact	- Possible irritation
Eye contact	- Possible irritation
Inhalation	- Not applicable
Ingestion	- Irritation. May cause lung damage.
Long term effect	- Not known

**12. ECOLOGICAL INFORMATION**

Mobility	- Mobile
Degradation	- Low
Accumulation	-Not expected
Short- & Long-Term effect	- Water pollutant

**13. DISPOSAL CONSIDERATIONS**

Dispose off according to local and national regulations.

**14. TRANSPORT INFORMATION**

CPL	- Not applicable
IMO	-Not applicable

**15. REGULATORY INFORMATION**

Symbol(s)	-Not applicable
Phrase(s)	- Not applicable
Phrase(s)	- Not applicable

**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.