

SYG-4410/ELECTRIC GREASE

SPECIAL GREASE FOR THE LUBRICATION OF ELECTRICAL SWITCHES, CONTACTS AND SENSORS

Product Description

SYG-4410 ELECTRIC GREASE is high-performance grease which combines a synthesized hydrocarbon base fluid with a lithium complex soap thickener. The thickener system provides a high dropping point, excellent resistance to water wash, and a tenacious structural stability.

SYG-4410 ELECTRIC GREASE is special grease for the lubrication of electrical switches, contacts and sensors. It consists of a synthetic hydrocarbon oil and lithium soap incorporating a UV indicator for quality inspection. It is intended especially for the protection and lubrication of copper, tin and silver surfaces against corrosion. Further positive effects are: reduction of plugin and switching forces, reduction of fretted oxide development, extended connecting and switching cycles, constantly low contact resistance and smoother switching transitions.

SYG-4410 ELECTRIC GREASE is synthetic grease provides these advantages when compared with mineral oil greases intended for similar service. Running-in wear is reduced to a minimum. In addition, SYG-4410 additive package provides protection in the boundary friction regime, thus preventing tribo-corrosion.

Applications

The unique physical properties of the synthetic base oil, combined with selected additives, provide outstanding protection against wear, rust, corrosion, and high-temperature degradation. The wax-free feature of the synthetic base oil allows for low-temperature mobility/pumpability and very low starting and running torque values. . It is a true wide-temperature, multi-service grease. It is also suitable for lubrication of plastic and metal combinations in automotive components and cables.

SYG-4410, is recommended for long term and lifetime lubrication of high speed, high load bearings used typically in draw frame top roller end bush and applications which need a lubricant that can perform normal functions yet go far beyond in terms of high and low temperature and long-life performance. It minimizes contact resistance values under lifetime operating requirements subject to varying electrical and mechanical loads.

Benefits

- Wide service temperature range.
- Excellent oxidation and mechanical stability.
- Excellent corrosion prevention characteristics.
- Good compatibility with plastics.
- Contains a UV indicator.
- Electrical contacts should be bright and clean.
- Excellent wear protection under heavy loads and high temperatures.
- Power-saving capabilities.

Typical Properties

PROPERTIES	TYPICAL VALUES
NLGI Grade	2
Structure	Smooth, Slight Tack
Soap Type	Lithium Complex
ISO VG Base oil	120
Density at 20°C	0.86
Penetration, Worked 60x	265-295
Dropping Point, °C	220
Temperature Range	-40 to 250°C
Base Oil Viscosity @40°C	120
@100°C	18
Corrosion Prevention, ASTM D 1743	Pass
Four-Ball EP, Weld Load, ASTM D 2596, kg	None
EMCOR/ SKF Water wash Test, IP 220	0
Water washout, ASTM D 1264	5.5

Available Packs: 1, 18 and 180 Kg.

Shelf Life: 36 Months from 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. The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

1. PRODUCT AND COMPANY IDENTIFICATION

Product SYG-4410 ELECTRIC GREASE
Supplier PETRELPLUS INC.

One World Center, Tower One, 9th Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013, Maharashtra.
Call # +91 22 6216 7072
(Monday to Friday)
Cell # +91 93522 25457
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2. COMPOSITION

No harmful substances. Composition of Synthetic base oil, Lithium Complex thickener and high-performance 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

NLGI - 2
Soap - Lithium Complex
Drop Point, °C - 220
EMCOR - 0

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.