

## CSEP-2 GREASE

CALCIUM SULFONATE EP-2 GREASE

### Product Description

CALCIUM SULFONATE EP-2 GREASE is a 100% synthetic Calcium Complex thickened lubricating grease. It offers excellent anti-wear properties, extreme pressure properties, oxidation resistance, and protection from rust and corrosion. Its special system provides superior water spray off and water wash off properties.

The synthetic base gives exceptional low temperature properties and thermal stability over a wide temperature range. It is ideal for -10<sup>o</sup>C to 300<sup>o</sup>C

### Applications

- Work in High Temperatures for high load friction.
- Also work as Lubrication for bearings with contact to cleaning agents or disinfectants.
- This water proof grease is good for joints, hinges and levers etc.

### Benefits

- Provides Extreme pressure protection.
- The grease can work in Extreme temperature range.
- Heavy load carrying capability.
- The grease has good Shear stability.
- Excellent oxidation resistance.
- Excellent corrosion resistance.
- Water resistant.
- Reduces noise.
- Reduces downtime.
- Reduces power consumption.
- Cling capability.

**PETRELPLUS INC.**

One World Center, Tower One, 9<sup>th</sup> Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013  
mail-marketing@petrelplus.com, [www.petrelplus.com](http://www.petrelplus.com)

+91 93522 25457

+91 95098 25457



## Typical Properties

CSEP-2 GREASE	
NLGI Grade	2
Color	Blue
Thickener	Calcium Complex
Operating temperature range	-40 <sup>o</sup> F to 615 <sup>o</sup> F -10 <sup>o</sup> C to 300 <sup>o</sup> C
Kinematic viscosity of base oils @40 <sup>o</sup> C (ASTM445)	216 cSt (1000 SUS)
Penetration @25 <sup>o</sup> C(77 <sup>o</sup> F) (ASTM D-217), mm/10 Worked 60 strokes	270-295
Mechanical Stability (ASTM D-217) % change from P60	
P100,000 strokes	2.50%
P10,000 strokes with 50% H2O	<6.0%
Dropping Point (ASTM D-2265) <sup>o</sup> F (°C)	+572(+300)
Oil Separation (ASTM D-1742) – 24 hours @25 <sup>o</sup> C(77 <sup>o</sup> F)	0.17
Shell Roll Stability (ASTM D-1831)	<4.0%
Oxidation Stability (ASTM D-942) psi drop/500 hours	6.0lbs
Oxidation Bearing Life (ASTM D-3527)	200hours
4-Ball Wear Test (ASTM D-2266) mm scar, 40kg,1200 RPM, 75 <sup>o</sup> F,1H	0.42mm
4-Ball EP Test (ASTM D-2596) LWI, kg	>75
Weld Load, kgf	600
Timken OK Load (ASTM D-2509) lbs/kg	60/27
Rust test (ASTM D-1743)	Pass
Copper Corrosion test (ASTM D-130)	Pass/1b
Salt Fog Spray (ASTM B-117) hours to failure	>1000 hours
Water Washout (ASTM D-1264) @ 80°C, % loss	<1.42%
Wheel bearing leakage grams (ASTM D-1263) Modified @ 163°C (325°F)	0.4
Base Oil Characteristics	
Viscosity SUS @ 100°F (37.77°C)	1100
Viscosity SUS @ 210°F (98.88°C)	85
Pour Point, °F	+5
V.I. Min	95

**Available Packs: 18 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. The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

**PETRELPLUS INC.**

One World Center, Tower One, 9<sup>th</sup> Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013  
mail-marketing@petrelplus.com, [www.petrelplus.com](http://www.petrelplus.com)

+91 93522 25457

+91 95098 25457



## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product  
Supplier**

**CSEP-2 GREASE  
PETRELPLUS INC.**

One World Center, Tower One, 9<sup>th</sup> Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013, Maharashtra.  
Call # +91 22 6216 7072  
(Monday to Friday)  
Cell # +91 93522 25457  
[marketing@petrelplus.com](mailto:marketing@petrelplus.com)  
[www.petrelplus.com](http://www.petrelplus.com)

## 2. COMPOSITION

No Reportable Hazardous Substance(s) or Complex Substance(s). Composition of Base oil, thickener and performance- based additives.

## 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

Foam, carbon dioxide or dry powder.

## 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.

## 7. STORAGE AND HANDLING

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.

Storage - Store in delivery packs in a cool & dry place.

## 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

Color - Blue  
Drop point, °C - more than 300  
NLGI - 2  
Thickener - Calcium Complex

## 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:

## 12. ECOLOGICAL INFORMATION

LC50 (96 Hour): mg/1

EC50 (24 Hour): mg/1

Biodegradability (Coupled units):

## 13. DISPOSAL CONSIDERATIONS

Solid material should be incinerated. Material absorbed on sand should be disposed of as solid waste.

## 14. TRANSPORT INFORMATION

IMDG No.: Not classified

Packing Groups: IATA-DGR Class No.: Not classified

TREMCARD: Not classified

RID/ADR Class No.: 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

## 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.

DISCLAIMER/USER'S RESPONSIBILITY: PETRELPLUS INC. Provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriate use.