

# CPU HT GREASE

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## Product Description

CPU grease is a kind of thermally conductive but usually electrically insulating compound, which is commonly used as an interface between heat sinks and heat sources (e.g., high power semiconductor devices). The main role of thermal grease is to eliminate air gaps or spaces (which act as thermal insulator) from the interface area so as to maximize. It protects delicate electronic parts against overheating. They are ideal for use as a thermal interface and insulator for semiconductor elements (transistors, thermistors) and various types of heat sinks.

## Recommended for use

CPU grease is recommended for protection of sensitive components such as sensors, probes, measuring instruments or semiconductors, such as diodes, transistors, thyristors through improving the heat linking to cooling plates or metal housings.

## Benefits

- Facilitates heat transfer between the heat sink and CPU
- Acts as a cooling gel to reduce CPU temperature
- Reduces fire hazard by eliminating heat sink scorching
- Thermal paste has no benefits in modern processors
- It will have to be coupled with a mechanical fixation mechanism such as screws, allowing for pressure between the two, spreading the thermal grease onto the heat source.

## Typical Properties

NLGI GRADE	1	2	3
Base Oil	Silicon Oil	Silicon Oil	Silicon Oil
Colour	White	White	White
Structure	Soft	Soft	Soft
Density 20deg CDIN 51757	1.53	1.53	1.53
Temperature range	-40 to 180 deg C	-40 to 180 deg C	-40 to 180 deg C
Drop point	NIL	NIL	NIL
Worked penetration DIN ISO 2137 at 25 deg C, 0.1 mm	310-340	265-295	220-250
Consistency DIN 51818 NLGI Grade	1	2	3

**Available Packs: 5, 18, 50 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** CPU HT GREASE  
**Supplier** 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 harmful substances. Composition of Synthetic hydrocarbon base oil, Lithium 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

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**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.