

SYG 6840 HEAT SINK PASTE THERMAL GREASE

Product Description

SYG 6840 HEAT SINK PASTE also called Thermal Grease, CPU grease, thermal compound, thermal gel, thermal interface material or thermal paste 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 heat transfer. Heat sink paste 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.

Applications

SYG 6840 HEAT SINK PASTE 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

As opposed to thermal adhesive, thermal grease does not add mechanical strength to the bond between heat source and heat sink. 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

PROPERTIES	Values	Values	Values
NLGI Grade	1	2	3
Base Oil	Silicon Oil	Silicon Oil	Silicon Oil
Color	White	White	White
Structure	Soft	Soft	Soft
Density 20 ^o C DIN 51757	1.53	1.53	1.53
Temperature Range	-40 to 180 °C	-40 to 180 °C	-40 to 180 °C
Drop Point, °C	Nil	Nil	Nil
Worked Penetration DIN ISO 2137 at 25°C, 0.1 mm	310-340	265-295	220-250
Consistency DIN 51818 NLGI Grade	1	2	3
Thermal Conductivity (W/(m.K))	2-5	2-5	2-5

Available Packs: 1, 5, 18 and 180 Kg.

Tube Pack: 50, 100 and 200 Grams.

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.

1. PRODUCT AND COMPANY IDENTIFICATION

Product HEAT SINK PASTE
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)
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2. COMPOSITION

Silicone base oil with 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

NLGI grade - 1, 2 and 3
Color - white
Drop Point - Nil

10. STABILITY AND REACTIVITY

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

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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 INFOMRATION

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.