



**TRADERS**

116, Navneet Darshan , Old Palasia, Indore-452001

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A Quality Product From SRS House **SAFFROHEAT 401**

**GENERAL DESCRIPTION**

SAFFROHEAT 401 is grey colour heat sink grease, which is applied to the base and mounting studs of transistor and diodes to provide a positive heat sink seal, this facilitates heat transfer away from electrical/electronic components and into heat sinks, thereby increasing the overall efficiency and performance of the device.

SAFFROHEAT 401 is promotes high thermal conductivity, high temperature stability, and the lowest amount evaporation.

SAFFROHEAT 401 thermal compound resists changes in consistency temperatures up to 180°C; function as heat transfer media, durable dielectric insulation, barrier against environmental contaminants and as a stress-relieving shock and vibration absorber over a wide temperature and humidity range.

SAFFROHEAT 401 thermal paste is resistant to ozone and ultraviolet degradation and has good chemical and solvent stability, good interference between the heat producing device and the heat transfer media, and low surface tension that enables them to wet most surfaces.

SAFFROHEAT 401 will not harden, dry, or melt after 1200 hours @ 205°C.

**TYPICAL PROPERTIES AND CHEMICAL CHARACTERISTICS**

<b>Color</b>	<b>grey</b>
Specific Gravity, 25°C, gm/cc	2.05
Viscosity	Paste
Evaporation 24 hrs @ 25°C, %	0.0
Evaporation @ 200°C 24 H by weight, %	0.5

**Thermal Properties**

Thermal Conductivity w/m-k	2.85
Operating Temperature Range, °C	-30 to 240
Thermal resistance °C-in <sup>2</sup> /w	0.05

**POTENTIAL USES**

- Effective thermal coupler for any heat sink device, CPU to heat sink
- Automotive temperature-sensing device
- Temperature sensors
- Applied to the base and mounting studs of transistor, diodes and silicone controlled rectifiers
- Power transistors
- Diodes, semiconductors
- Thermal Joints
- For any device where efficient cooling is required
- Potting
- TEC Modules
- Hardware
- Telecommunications
- Right product for thermal management
- High-voltage corona suppressant in connectors for fly back transferors located in TV sets



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### STORAGE HANDLING & SHELF LIFE

SAFFROHEAT 401 has a shelf life of 2 years at room temperature (25°C) in an unopened container, settlings may occur during long term storage, it is recommended to re-mix the filler by hand or mechanical mixing. Keep container tightly closed store in cool area away from ignition sources and oxidizers, no special precautions need to be taken if product is handled according to directions. Shelf life is indicated on the product label, any special storage and handling instructions will be printed on the product container label.

### FEATURES AND BENEFITS

- Non-Sag or flowing
- Non-Hazardous polymerization
- Non-Toxic
- Non-Corrosive
- Rework able
- Easily removed
- Non-Flammable
- Easy to apply via dispensing or screen printing
- Low surface tension that enables it to wet most surfaces, which can lower the thermal contact resistance between the substrate and material.

### APPLICATION METHODS

Automated or manual dispensing

### USAGE INSTRUCTIONS

For industrial use only Read MSDS carefully prior to use.

### Limitations

SAFFROHEAT 401 is neither tested nor represented as suitable for medical or pharmaceutical use.

### CLEAN UP AND DISPOSAL

SAFFROHEAT 401 can be removed by using solvents such as mineral spirit, heptane, or isopropyl alcohol. Dispose of in accordance with local and state regulations for hazardous waste.

### AVAILABILITY AND PACKAGING

- 50 grams
- 1 kg
- 10kgs

**Disclaimer:** The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee or their accuracy is made. In every case we urge and recommend that purchasers before using any product in full scale production make their own tests to determine to their own satisfaction whether the product as of acceptable quality and is suitable for their particular purposes under their own operation conditions. No representative of ours has any authority to waive or change the foregoing provisions but, subject to such provisions, our engineers are available to assist purchasers in adapting our products to their needs and to the circumstances prevailing in their business.