



A NEW FORCE IN CHEMICAL MANUFACTURING

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TECHNICAL DATA SHEET

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PRODUCT NAME

R001 Thermally Conductive Grease – Heatsink Compound

PRODUCT RANGE

Part Number	Available Size
CT-R001-SI-S10-PT	10cc Syringe
CT-R001-SI-S30-PT	30cc Syringe
CT-R001-50	50 Gram Tube
CT-R001-150	150 Gram Tube
CT-R001-1KG	1 Kilo Pail
CT-R001-4KG	4 Kilo Pail



Refer to SDS for product safety guidelines

R001 Thermally Conductive Grease – Heatsink Compound

Chemtools® R001 Thermally Conductive Grease is a non-toxic, metal oxide filled silicone grease, which provides a highly efficient and highly thermally conductive compound designed to operate over a wide temperature range. The formulation is designed for use in applications where long term high temperature stability is required.

COMMON USES:

- Diodes
- Transistors
- Heat sinks
- Semi-conductors
- Thermostats
- Power resistors
- Radiators

FEATURES & BENEFITS

- Good Thermal Conductivity.
- Non-Electrically Conductive.
- Wide Operating Temperature Range.
- Low Creep and Low Bleed Characteristics.
- Easy Application, Low Toxicity, Economic.

TYPICAL SPECIFICATION:

Thermo Conductive Constituent:	Metal oxide powders
Carrier:	Silicones
Appearance:	White Paste
Odour:	None
Thermal Conductivity:	0.9 W/mK
Thermal Resistance:	0.12 °C-cm ² /W
Density:	2.1 g/cm ³
Temperature Range:	-50 to +200°C
Weight Loss:	-0.6% after 200hrs @ 150°C
Bleed:	0.4%
Dielectric Strength:	18kV/mm
Permittivity:	3.6 @ 1MHz
Electrical Resistance:	3 x 10 ¹⁴ Ω

SHELF LIFE:

>3 years (Please refer to storage conditions below)

DIRECTIONS FOR USE:

Clean all surfaces before use. Ensure good coverage. The surface of all components should be free of dirt, contaminants and old grease.

STORAGE:

Store in a cool, dry place, in tightly closed original containers at a room temperature between 5°C and 40°C. Do not place in direct sunlight or near any heat source. Do not return any used material to its original container.

DISPOSAL:

All products should be disposed of in accordance with local regulations.

PRECAUTIONS:

This product generally present little hazard in normal handling if ordinary care is exercised. If spilled, cover with inert, absorbent material and remove. Flush the area with water. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheets (SDS) for this and all other products being used are understood by all persons who will work with the material.

WARRANTY:

All products purchased from or supplied by Chemtools® are subject to terms and conditions set out in the contract. Chemtools® warrants only that its products meet the specifications designated as such herein, or in other publications. All other information supplied by Chemtools® is considered accurate, but is furnished upon the express condition. The customer shall make its own assessment to determine the product's suitability for a particular purpose. Chemtools® makes no other warranty, either expressed or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or products will not infringe any patent.