

## Silicone Heat Sink Paste Y -500

The high thermal conductivity, good temperature resistance and excellent dielectric properties of linear dimethyl polysiloxanes , when combined with selected inorganic fillers, are prerequisites for the use of a silicone heat conductive paste in semi-conductors.

As conductive paste when fitting diodes, transistors, and also thyristors to guarantee an optimum heat transfer from semi-conductors to the cooling surfaced. When measuring surface temperatures our product may also be applied. In this case the thermocouple is embedded in **Heat Sink Paste Y-500** in order to allow a direct contact to the measuring place without losing heat. **KYOTOKU Heat Sink Paste Y-500** is suitable for temperatures up to 250°C. For higher working temperatures we recommend the use of our thermostable **Silicone Heat Sink Paste Y-500**.

### Properties :

the following properties are especially worth mentioning :

- △ High thermal conductivity
- △ Very high temperature and oxidation resistance
- △ Slight change in consistency over a wide temperature range
- △ Hydrophobic properties
- △ Excellent dielectric properties

### Physical properties as supplied :

Color	white
Bluk penetration	210-260
Specific gravity	2.3 at 25°C
Volatile matter	after 4 h/200°C below 0.5%
bleed	after 4 h/200°C on vertical surface no bleeding
Dielectric strength	1.0Kv at 0.1mm, ASTM D-149
Volume resistivity	1 X 10 <sup>14</sup> ohm-cm, ASTM D-257
Thermal conductivity	0.0015K factor ,cal /cm <sup>2</sup> /°C /sec/cm

### Storage stability:

Given proper storage conditions, **Silicone Heat Sink Paste Y-500** stores indefinitely.

**Picking:** 2kg tinfoil containers