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ISO 9001 / 14001 / TS 16949 / QS 9000 / NT Mark

CASMOLY HC-300(E)

HEAT SINK COMPOUND

○ Description

CASMOLY HC-300(E) is silicone-Heat Sink Compound based on a high purity silicone fluid filled with an optimum ratio of special metal oxide showing an excellent thermal conductivity as well as its inherent and good dielectric properties.

It does not dry up and harden even when exposed to high temperatures for a long time due to the fact that it has some characteristics such as high thermal conductivity, excellent high-temperature stability, a extremely low amount of oil separation. In addition, the swelling problem of the JCR (Junction Coating Resin), which is especially common in the existing heat sink compound, has been significantly improved, so that it can be safely used in the parts that come in contact with the JCR.

○ Characteristic

- Very high thermal conductivity
- Non-adverse effects to the nearby JCR.
- Controlled oil based to the minimum & Extra stable under the prolonged high temperature
- Wide range of operating Temperature
-50°C ~ +180°C

○ Main Ingredients

- Silicone Oil, Metal oxide

○ Application

- Power Transistors, General Transistors
- Diodes, Rectifiers
- Electronics & Electric Components requiring dissipating heats

○ Usage

The surface of the material to be applied should be cleaned and dried.

HC-300(E) is a compound, so it is good to stir evenly before applying HC-300(E)

○ Packing

- 1KG/CAN
- 20KG/PAIL
- 200KG/DRUM

○ Typical Properties

Test Items	HC-300(E)	Test Method
Appearance	White	-
Unworked Penetration (25°C)	290~320	ASTM D 217
Specific gravity	2.0~3.0	ASTM D 792
Oil Separation (wt%)	Max. 1.0	ASTM D 6184
Evaporation Loss (wt%)	Max. 1.0	ASTM D 972
Copper strip corrosion	Max. 1	ASTM D 4048

*ASTM: American Society for Testing & Materials.

☞ All values are not intended for use in preparing specifications.