

CSL-850 Technical Data Sheet

Heat Sink Compound

1. PRODUCT NAME

CSL-850 Heat Sink Compound

2. FEATURES

- Non-curing compound
- High thermal conductivity
- Low bleed
- Retains consistency over a temperature range of -50°C to 200°C (-55°F to 390°F)

3. PRODUCT DESCRIPTION

CSL-850 Heat Sink Compound is a non-curing, water resistant paste which is heavily filled with conductive metal oxides. This compound will not dry out, harden or melt in exposure to temperatures up to 250°C (482°F). CSL-850 maintains a positive heat sink seal that facilitates heat transfer from the device, to the heat sink, thereby increasing overall efficiency of the device.

CSL-850 is generally used as a thermal coupling of electrical/electronic devices to heat sinks. It can be used as an effective thermal coupler for any heat sink device where efficient cooling is required. It can also be used as a non-flammable coating for flyback transformer connections in TV chassis and similar applications.

Typical Properties

These values are not intended for use in preparing specifications

As Supplied

Type	Non-curing compound
Appearance	Smooth, white, thixotropic paste
Specific Gravity	2.30
Temperature Stability	-50°C to 200°C (-55°F to 390°F)
Thermal Conductivity	2.0×10^{-3} cal/sec.cm.°C
Dielectric Strength (ASTM D149)	150 V/mil (60 kV/cm)
Volume Resistivity (ASTM D257)	3.0×10^{13} ohm.cm
Dissipation Factor, at 100 Hz and 10 Hz (ASTM D150)	4.17, 4.10
Dielectric Constant, at 100 Hz and 10 Hz (ASTM D150)	0.001, 0.0012

4. INSTALLATION

CSL-850 is ready-to-use and requires no mixing or additives. It is applied to the base and mounting studs of transistors, diodes and silicon controlled rectifiers.

5. PACKAGING

CSL-850 is supplied in 1L cans, 3.8L (1 US gallon) cans and 19L (5 US gallon pails).

6. STORAGE

CSL-850, when stored in original, unopened container, has a one year shelf life from the date of manufacture. Most products however, will last longer if stored in cool dry conditions.

7. SAFETY PRECAUTIONS

Avoid prolonged contact of CSL-850 with skin. On direct contact, CSL-850 will irritate eyes. Flush well with water and consult a physician.

8. WARRANTY

CSL Silicones Inc. warrants that its products will meet its specifications. CSL shall in no event be liable for incidental or consequential damages. Except as expressly stipulated, CSL's liability, expressed or implied, is limited

to the stated selling price of any defective goods.

Data is subject to change without notice and it is therefore recommended that this information not be used for specification writing. For additional information on specific applications, contact the manufacturer.

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