

### Description

N-Sil 8620 is a one-part silicone thermally conductive grease. It is non-flowing with highly filled compounds. It is designed for applications that require high thermal conductivity. It is easy to be removed from the substrates. Typical applications include thermal management of heat sinks, high-power LEDs, and thermoelectric devices.

### Features

- High thermal conductivity
- Easy to remove with alcohol or acetone
- High temperature resistance
- Good thermal cycling reliability
- Minimal bleeding
- Low modulus and mechanical stress

### Typical Properties

<b>Chemical Type</b>	Silicone
<b>Appearance</b>	Grey Paste
<b>Specific Gravity [g/cm<sup>3</sup>]</b>	~3.0
<b>Shelf life @ 10-28°C [months]</b>	12
<b>Penetration @ 25°C, 1/10 mm</b> GB/T 269	280-320
<b>Oil Scatteration [%]</b> 8 hrs @ 200°C	≤1.0
<b>Volatility [%]</b> 8 hrs @ 200°C	≤1.0
<b>Thermal Conductivity [W/m·K]</b> ASTM D2214	2.0
<b>Dielectric Strength [kV/mm]</b> ASTM D149	≥2.0
<b>Volume Resistivity [ohm-cm]</b> ASTM D257	>2.0x10 <sup>15</sup>

### Directions for Use

#### 1. Surface Treatment

The substrate surfaces should be free of dust, oil, fat or any other dirt in order to get the optimum thermal conductivity. For slightly contaminated surfaces it is sufficient to wipe with isopropanol or ethanol.

#### 2. Applications

Product is supplied ready for use. It requires stirring prior to screen printing. Depending on package type, it can be dosed manually, semi-automatically or fully-automatically with a dosage apparatus.

Once package is opened, please use it up as soon as possible.

3. Suggested working temperature range is -50 to 200°C.

### Storage

Maximum shelf life may be obtained when product is stored in a cool, dry location at a temperature between **10°C to 28°C**.

TO PREVENT CONTAMINATION OF UNUSED PRODUCT, DO NOT RETURN ANY PRODUCT TO ITS ORIGINAL CONTAINER. The product is non-dangerous goods, according to general chemical in transport.

### Available Package

1KG pot packages are available.

### Materials Handling

Refer to the Material Safety Data Sheet (MSDS) for this product.

### *Disclaimer*

*The information provided here including the recommendations for use and application of the product is based on internal laboratory test conditions and should only be used as a reference. CollTech does not assume responsibility for the test or performance results obtained by the user. It is the responsibility of the user to perform their own evaluations to confirm whether this product is suitable for their application.*