



ISO 9001-2015 Certified

718 Park East Drive, Woonsocket RI 02895, USA

Phone: (401) 726-4500

Email: info@epoxyset.com ■ Web: www.epoxysetinc.com

## TECHNICAL BULLETIN

### HTG-72TC

#### HIGH TEMPERATURE, HIGHLY THERMALLY CONDUCTIVE GREASE

**HTG-72TC** is our highest temperature resistance thermal grease along with very high thermal conductivity. It is a heavily filled system with heat conductive metal oxides. This combination promotes high thermal conductivity, low bleed and high-temperature stability. These compounds resist changes in consistency at temperatures up to 360°C, maintaining a positive heat sink seal to improve heat transfer from the electronic device to the heat sink or chassis, thereby, increasing the overall efficiency of the device.

This material will not bleed, dry, harden or melt in normal industrial use and provides long-term material stability. It can be used for mounting semiconductor devices, power transistors, and diodes; coupling heat generating assemblies to chassis; heat transfer medium on ballast; thermal joints; and many electronics, automotive and electrical applications.

#### **TYPICAL PROPERTIES:**

Color	Gray
Specific Gravity	3.0
Evaporation, @ 200°C, 24 hrs, %/Wt	0.1
Evaporation, @ 300°C, 24 hrs, %/Wt	0.3
<b>Operating Temperature Range</b>	<b>-40°C to 360°C</b>
<b>Thermal Conductivity @ 36°C</b>	
<b>W/m.°K</b>	<b>3.2</b>
Thermal Resistance, °C-in <sup>2</sup> /W	0.015
Dielectric Strength (0.05" gap), Volts/mil	362
Dielectric Constant, 1 kHz	4.8
Dissipation Factor, 1 kHz	0.0016
Volume Resistivity, ohm-cm	1.1x10 <sup>14</sup>

#### **FOR INDUSTRIAL USE ONLY:**

These materials are intended for industrial use only, and the practices of good housekeeping, safety and cleanliness should be followed before, during and after use.

#### **WARNING!**

Although the system contains low volatility materials, care should be taken in handling. Adequate ventilation of work place and ovens is essential. In case of skin contact, wash thoroughly with soap and water. For eyes, flush immediately with plenty of water for at least 10 minutes and seek medical attention. Refer to Material Safety Data Sheet for additional health and safety information.

#### **SHELF LIFE:**

The shelf life of these materials is greater than 2 years when stored in unopened containers at an average temperature of 25°C.

**DISCLAIMER:** All data given here is offered as a guide to the use of these materials and not as a guarantee of their performance. The user should evaluate their suitability for own purposes. Properties are typical and should not be used in preparing specifications. Statements are not to be construed as recommendations to infringe any patent.