



ELECTRONICS, INC.  
 44 FARRAND STREET  
 BLOOMFIELD, NJ 07003  
 (973) 748-5089  
<http://www.nteinc.com>

## NTE303 Silicon Thermal Compound 1 Gram/Tube

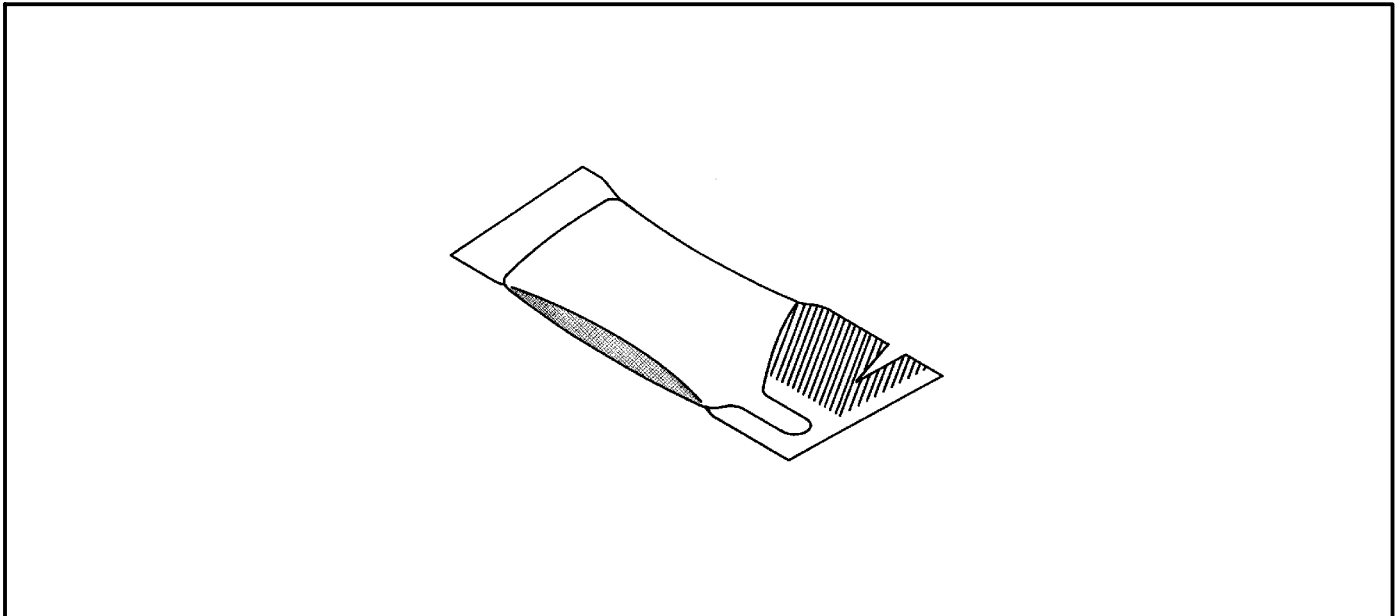
**Technical Specifications:** (Typical)

**Material Description**

Base .....	Silicon Oil
Filler .....	Zinc Oxide and Silica
Color .....	White
Serviceable Range .....	-40° to +400°F
Specific Gravity .....	2.3 minimum
Thermal Conductivity, (K factor, cal/cm2/°C/sec/cm) .....	0.001

**Physical Properties**

Consistency	
Worked Penetration (60 strokes) @ +77°F .....	250-330
Brookfield Viscosity (spindle #7; 1 rpm; 4th rev. @ +77°F) .....	1.1 - 1.6 mil cps.
Bleed; % max. after 24 hrs, @ +200°C .....	1.0
Evaporation; % max., after 24 hrs @ +200°C .....	1.0



# MATERIAL SAFETY DATA SHEET

Finished Product



Date-Issued: 2/26/2004  
MSDS Ref. No: NTE303  
Date-Revised: 2/26/2004  
Revision No: New MSDS

## Thermal Grease

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** NTE303  
**PRODUCT DESCRIPTION:** Thermal Grease  
**PRODUCT CODE:** NTE303  
**CHEMICAL FAMILY:** Chemplex 1381

**MANUFACTURER**  
NTE Electronics, Inc.  
44 Farrand Street  
Bloomfield, NJ 07003  
Phone: 973-748-5089

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC (U.S.):** (800) 424-9300  
**CANUTEC:** (613) 996-6666  
**EMERGENCY PHONE:**  
800-631-1250(8-5pm est)

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### 2. CHEMICAL AND PHYSICAL PROPERTIES

<b>SOLUBLILITY IN WATER (@20C):</b>	<b>NIL</b>	<b>VAPOR DENSITY (AIR-1):</b>	<b>&gt;1</b>
<b>SPECIFIC GRAVITY (WATER=1):</b>	<b>&gt;1.0</b>	<b>STRONG ACID:</b>	<b>NO</b>
<b>VAPOR PRESSURE (mmHg @ 20C):</b>	<b>NIL</b>	<b>STRONG BASE:</b>	<b>NO</b>
<b>EVAPORATION RATE (ether = 1):</b>	<b>&gt;0.001</b>	<b>BOILING POINT (DEG F):</b>	<b>+600 F</b>
<b>PERCENT VOLATILE (by weight):</b>	<b>ZERO</b>	<b>MELTING POINT (DEG F):</b>	<b>N.A.</b>

APPEARANCE AND ODOR: WHITE GEL, ODORLESS

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### 3. REACTIVITY DATA

**STABILITY:** STABLE      **INCOMPATIBILITY:**      **KEEP AWAY FROM STRONG OXIDIZERS**

**NOTE:**      **HAZARDOUS POLYMERIZATION WILL NOT OCCUR**

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#### 4. FIRE AND EXPLOSION DATA

FLASH POINT (METHOD): 600 F MIN      FLAMMABLE LIMITS-LEL: UNK      UEL: UNK

EXTINGUISHING AGENTS: DRYCHEMICAL (X)    CO2 (X)      WATERSPRAY (X)    FOAM (X)

SPECIAL FIRE FIGHTING PROCEDURES: Avoid breathing vapors. Use breathing apparatus in confined areas. Cool exposed containers with waterspray.

HAZARDOUS THERMAL DECOMPOSITION PRODUCT: Silicon dioxide, carbon oxides, formaldehyde unidentified organic compounds.

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#### 5. PRECAUTIONS FOR SAFE HANDLING AND USE

**STEPS TO TAKE IN CASE OF SPILL:** Add absorbent to spill area. Keep silicone products out of sewers and waterways. Advise authorities if they do enter.

**WASTE DISPOSAL METHOD:** Dispose of at appropriate waste facility in accordance with regulations.

**PRECAUTIONS IN STORAGE:** Keep containers closed when not in use. Do not handle near heat, flames, sparks. Do not weld or heat empty containers.

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#### 6. HEALTH HAZARD DATA

**PERMISSIBLE CONCENTRATIONS (AIR):** None established

ROUTE	EFFECT OF OVEREXPOSURE	EMERGENCY FIRST AID PROCEDURE
EYES	NONE EXPECTED	FLUSH WITH WATER. SEE PHYSICIAN
SKIN	PROLONGED OR REPEATED CONTACT MAY CAUSE MILD IRRITATION	WASH WITH SOAP AND WATER. IF HIGH-PRESSURE, GET IMMEDIATE MEDICAL ATTENTION.
INHALATION	NONE EXPECTED	REMOVE FROM CONTAMINATED AREA
INGESTION	NONE EXPECTED	
CHRONIC	NONE EXPECTED	

**HAZARDOUS INGREDIENTS**

**TLV, TWA, PEL**

**IARC, NTP, OSHA**

**SILICA THICKNER**

**PEL 20 MPPCF (AS DUST)**

**NOT LISTED**

**ZINC COMPOUND    \*<80%**

**TWA 5 MG/M3 (AS DUST)**

**NOT LISTED**

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**7. CONTROL MEASURES**

**RESPIRATION PROTECTION:**

**NONE NORMALLY NEEDED**

**VENTILATION TYPE:**

**GENERAL ADEQUATE. USE LOCAL MECHANICAL TO INSURE TLV'S NOT SURPASSED WHERE APPLICABLE.**

**SKIN PROTECTION:**

**CHEMICALLY RESISTANT EYE PROTECTION: GOGGLES OR FACESHIELD DESIRABLE**

**OTHER PROTECTIVE MEASURES:**

**NONE NORMALLY NEEDED**

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**8. MISCELLANEOUS**

**UNK MEANS UNKNOWN**

**EST MEANS ESTIMATED**

**N.A. MEANS NOT APPLICABLE**

\* This component is regulated under section 313 of SARA

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The information contained herein is based on data considered accurate. However, no warranty, expressed or implied, is given regarding the accuracy of these data or the results to be obtained from the use thereof.