

### INTRODUCTION

Apiezon T grease is a filled hydrocarbon silicone free grease for general sealing and lubrication in the medium temperature range.

### KEY FEATURES

- Medium temperature range
- Sticking power
- Low to medium vacuum range
- Silicone free

T grease can be used over a wide range of temperatures from 10 to 120°C, while optimum consistency is retained at between 25 and 50 °C.

T grease is specifically recommended for sealing and lubrication in medium temperature applications, but not for highly stressed bearings.

### UNDER VACUUM

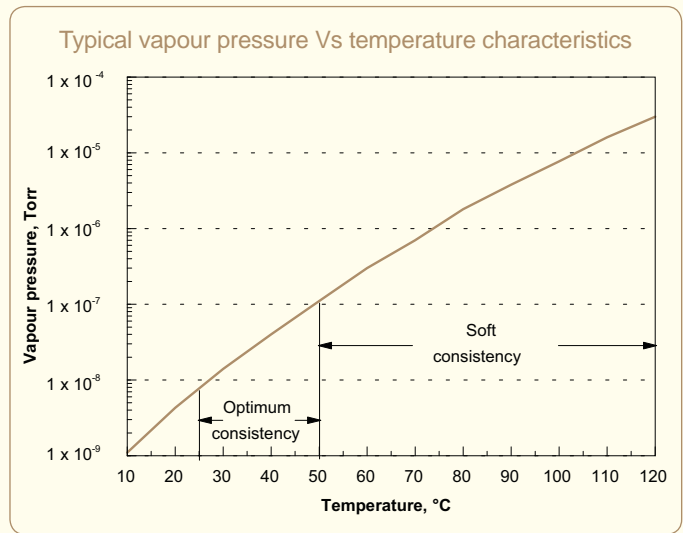
At its higher operating temperature range, T grease exhibits good vacuum properties in the lower to mid vacuum range, while at lower temperature it can be used in the high vacuum range. Full information on the vapour pressure of T grease is shown in the graph.

### TYPICAL PROPERTIES

Working temperature range	10 – 120°C
Dropping point – ASTM.D 566-02	112-137°C
Vapour pressure @ 20°C	4.6 x 10 <sup>-9</sup> Torr
Relative density	0.912
Coefficient of expansion per °C over 20°C-30°C	0.00073
Volume resistivity	3.3 x 10 <sup>12</sup> Ohm/cm
Permittivity	2.3
Loss tangent	<0.0001
Surface breakdown at flashover	24 kV
Electrical strength	730 V/mil

### STICKING POWER

T grease is a very tenacious grease conferring excellent cohesive strength. Mated joints when joined together stay together, ensuring an efficient gas tight seal.



**SAFETY DATA**

PRODUCT NAME: Apiezon T Grease

PRODUCT CODE: **A-APG-TYPET**

**1 COMPOSITION/INFORMATION ON INGREDIENTS**

Hydrocarbon grease.  
No hazardous ingredients  
CAS Nos 8012-95-1, 637-12-7

**2 HAZARD INFORMATION**

This product is not classified as hazardous.

**3 FIRST AID MEASURES**

EYES: Irrigate with copious quantities of water.  
SKIN: Wash with soap and water.  
INHALATION: None envisaged.  
INGESTION: Do not induce vomiting. Seek medical attention.

**4 FIRE FIGHTING MEASURES**

Suitable extinguishing media:  
• Carbon dioxide, dry powder, foam or water fog.  
• Do not use water jets.  
Special exposure hazards:  
• None.  
Special protective equipment:  
• None.

**5 ACCIDENTAL RELEASE MEASURES**

Personal precautions:  
• Spilt product constitutes a slip hazard.  
• Avoid contact with eyes.  
Environmental precautions:  
• None.  
Decontamination procedures:  
• Place in containers. See para 12 re disposal.

**6 HANDLING AND STORAGE**

Handling:  
• No special precautions required.  
Storage:  
• No special precautions required.

**7 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Respiratory protection:  
• None required.  
Hand / skin protection:  
• Wash hands after use.  
• For prolonged or repeated skin contact gloves are recommended.  
Eye protection:  
• None recommended.

**8 PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	Semi solid
Colour	Brown
Odour	None
Melting Point	112°C – 137°C
Flash Point	>260°C
Autoignition Point	>320°C
Explosive Limits	Not determined
Relative Density @ 20°C	0.912
Water Solubility	Insoluble

**9 STABILITY & REACTIVITY**

Stability	Will not polymerise
Conditions to avoid	Temp > 120°C
Materials to avoid	Strong oxidising agents
Hazardous Decomposition products	Trace amounts of polycyclic hydrocarbons

**10 TOXICOLOGICAL INFORMATION**

Based on the products components:  
Oral LD50 (rat) >2g/kg  
Dermal LD50 (rabbit) >2g/kg

Acute Health Effects:  
EYES: May cause transient irritation.  
INHALATION: Low volatility makes inhalation unlikely.  
INGESTION: May cause nausea, vomiting and diarrhoea.

Chronic Health Effects:  
SKIN: Repeated and prolonged skin contact may cause skin disorders.

**11 ECOLOGICAL INFORMATION**

Environmental: When used and/or disposed of as indicated no adverse environmental effects are foreseen.  
Mobility: Non-volatile/ Insoluble in water.  
Degradability: Slowly biodegradable in aerobic conditions.

**12 DISPOSAL CONSIDERATIONS**

Product and packaging must be disposed of in accordance with local and national regulations. May be incinerated.

**13 TRANSPORT CLASSIFICATION**

Not classified as hazardous for transport by air, sea, road or rail.

**14 REGULATORY INFORMATION**

All chemical substances in this material are included on the TSCA Inventory of chemical substances.