DATA SHEET - A-AP101
Apiezon vacuum grease AP101 - 50g

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INTRODUCTION
A-AP101 is an excellent general purpose, hydrocarbon grease, which is intended for a variety of industrial and scientific applications.

KEY FEATURES
- Anti seize properties
- Critical lubricant
- Wide temperature range
- Solvent/chemical resistance
- Silicone free

THE SECRET OF ANTI-SEIZE
A-AP101 contains PTFE which confers superior anti-seize properties providing long lasting lubrication and ensuring smooth operation. A-AP101 is an excellent general purpose grease for laboratory use.
A small amount of A-AP101 on fastenings which, when exposed to corrosive environments normally jam solid, will be protected thus allowing them to be effortlessly removed.

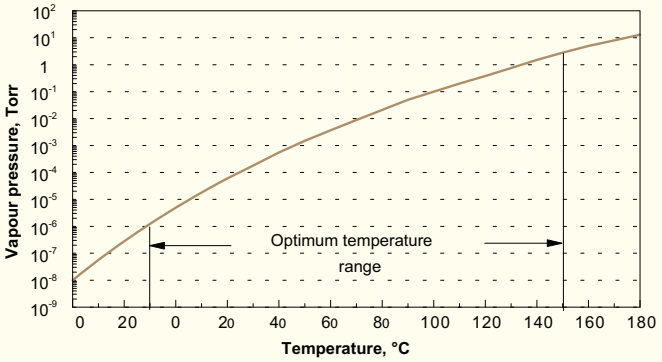
NON SILICONE
Being hydrocarbon based A-AP101 does not suffer from the problems of “creep” or “carry over” which is traditionally associated with silicone greases. It reduces sample contamination and consequently the risk of interference in analytical techniques such as infra-red and mass spectrometry.

WIDE TEMPERATURE RANGE
A-AP101 is an excellent general purpose grease that is ideal for use in critical lubrication conditions such as highly stressed bearings. It can be used over a wide range of temperatures, possessing its optimum consistency over the -15 to + 150°C temperature range, but is usable down to -40°C and, for limited periods, up to +180°C.

TYPICAL PROPERTIES

Working temperature range	-40 – 180°C
Dropping point – ASTM.D 566-02	>200°C
Vapour pressure @ 20°C	$<10^{-5}$ Torr
Relative density @ 20°C	0.981
Coefficient of expansion per °C over 20°C - 30°C	0.00066
Lubricity 4 Ball Test	
ASTM.D 2596-97(2002)e1	450kg

Typical vapour pressure Vs temperature characteristics



LEWVAC
Quality Components For Vacuum Technology

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SAFETY DATA

PRODUCT NAME: Apiezon AP101 Grease

PRODUCT CODE: **A-AP101**

1 COMPOSITION/INFORMATION ON INGREDIENTS

Hydrocarbon grease.
No hazardous ingredients:

CAS Nos	8012-95-1, 9002-84-0,4485-12-5

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

Engineering control measures:
- None required.

Personal protection:
- Wash hands after use.
- For prolonged or repeated skin contact gloves are recommended.

8 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Semi solid
Colour	Yellow
Odour	Faint oily
Melting Point	>200°C
Flash Point	>230°C
Autoignition Point	Not determined
Explosive Limits	Not determined
Relative Density @ 20°C	0.981
Water Solubility	Insoluble

9 STABILITY & REACTIVITY

Stability	Will not polymerise
Conditions to avoid	Temp > 200°C
Materials to avoid	Strong oxidising agents
Hazardous Decomposition products	May liberate toxic gases at >300°C

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. Must not be incinerated, due to liberation of toxic gases at >300°C.

13 TRANSPORT CLASSIFICATION

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

14 REGULATORY INFORMATION

Not classified as dangerous under EC criteria.All chemical substances in this material are included on the TSCA Inventory of Chemical Substances.

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