

## Turbo Pump Oil

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## Introduction

Manufactured from high quality ester base stock AP303 is robust and a proven lubricating oil for use in turbo molecular pump bearings. It offers a range of benefits, including excellent lubricity and long service life.

## Apiezon AP303

- ◆
- Excellent lubricant
- ◆
- Long lifetime
- ◆
- Proven in service
- ◆
- Large temperature range
- ◆
- Silicone free
- ◆
- Easily removed

## Temperature range

Apiezon AP303 has a wide operating temperature range and is suitable for continuous use at typical turbo pump operating temperatures. AP303 also has a low vapour pressure, meaning that it will not readily outgas into clean environments.

## Easily removed

When servicing of pump bearings is carried out Apiezon AP303 is easily removed by washing away with warm soapy water, by using any aromatic hydrocarbon solvent (toluene, xylene), or for a more environmentally friendly solvent, we recommend Limonene.

AP303 is not soluble in alcohols (ethanol, IPA) or ketones (acetone, MEK) so these are not effective for cleaning.

Table 1 shows a range of technical data for Apiezon AP303 turbo pump oil and the chart shows the vapour pressure data. If further information is needed please contact the Apiezon Technical helpline at [apiezontech@mimaterials.com](mailto:apiezontech@mimaterials.com).

## Shelf life

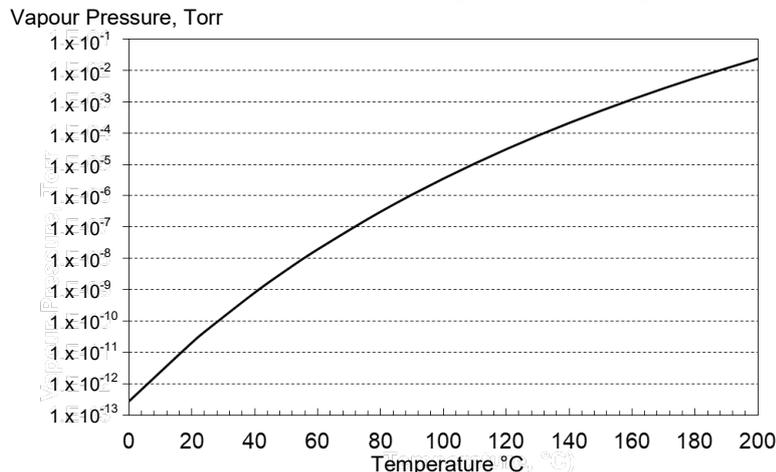
If properly stored indoor in temperature climate of -40°C to +40°C and away from direct exposure to sunlight, unopened containers of Apiezon AP303 have a shelf life of 10 years.

Table 1 – Technical properties

	Unit	Test method	AP303
Colour	HU	ISO 2211	125
Density at 20°C	kg/dm <sup>3</sup>	ISO 3675	0.97
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	ISO 3104	29
Kinematic viscosity at 100°C	mm <sup>2</sup> /s	ISO 3104	5.3
Viscosity index	-	-	116
Flash point	°C	ISO 2592	260
Pour point	°C	ISO 3016	<-50
RPVOT	min	ASTM D2112	397
4 Ball wear scar diameter	mm	ASTM D4172	0.72
Vapour pressure @ 80°C	Torr	-	3.1x10 <sup>-7</sup>

Data quoted above are typical values, may be altered without notice and do not constitute a specification

## Vapour pressure over working temperature range

北京麦迪森科技有限公司 

阿佩佐 Apiezon 中国区代理商

咨询电话: 13693164080 (微信同号)