



TECHNOLOGY MAKES LIFE BETTER

安徽省蚌埠市高新区兴中路 985 号日月科技园

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安徽艾约塔硅油有限公司

Iota Corporation Ltd.

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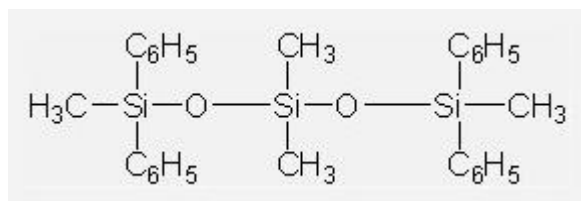
Silicone Diffusion Pump Oil IOTA704 (Equivalent to other brand 704)

Synonyms:

1. 1,1,5,5-Tetraphenyl-1,3,3,5-tetramethyltrisiloxane
2. 704 silicone diffusion pump Fluid
3. 704 diffusion pump fluid
4. Oil for diffusion pumps

Cas No: 3982-82-9

Chemical structure:



Diffusion Pump Oil IOTA704 is a colorless transparent oily, single-component fluid designed for high vacuum of 10⁻⁷torr (untrapped). It performs well in tough, rugged applications and offers quick pump down, even after exposure to air at operating temperatures. IOTA704 is thermally and chemically stable allowing it to keep pump jets free of tars and hard carbon.



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Technical Index

Chemical composition: Tetramethyl tetraphenyl trisiloxane

Ultimate Vacuum, torr (untrapped): 10^{-7} ~ 10^{-8}

Saturated Vapor Pressure, torr : 5×10^{-8}

Specific Gravity: 1.06 ~ 1.07

Viscosity (25°C), cSt: 38 ± 3

Flash Point °C: ≥ 210

Refractive Index 25°C: 1.5500~1.5600

Congealing Point °C: -35

Molecular Description: 484

Application:

Diffusion Pump Fluid IOTA704 can be used in variety of applications, including:

Electrical and electronics industry

- TV tubes, fluorescent tubes, cathode ray tubes



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- ordinary bulbs
 - capacitors
 - rectifier metallised film vacuum system

Optical industry

- surface improvements
- anti reflective coatings
- optical filters and mirrors

Metallurgy industry

- high-vacuum furnaces
- melting, degassing and sintering refractory metals; thick-film deposition

Plastics industry

- surface improvements
- mirror coatings
- protective coatings



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-
- film coatings

Other industries

- processing metals and fuels
- accelerators
- molecular plants
- R & D plants
- mass spectrometry

Others

Be used as transmission fluid in high-temperature carriers and various instruments.

Package, Transportation & Storage

1. **Diffusion Pump Oil IOTA704** is available in 1kg plastic bottles, 1gallon plastic drums, 5kg plastic drums, 25kg plastic drums, 25kg Iron drums or 200kg Iron drums.
2. Transport as non-hazardous chemicals, keeping away from rain and sunlight.
3. Shelf life: 3 years.



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