



TECHNOLOGY MAKES LIFE BETTER

安徽省蚌埠市高新区兴中路 985 号  
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安徽艾约塔硅油有限公司

**IOTA CORPORATION LTD.**

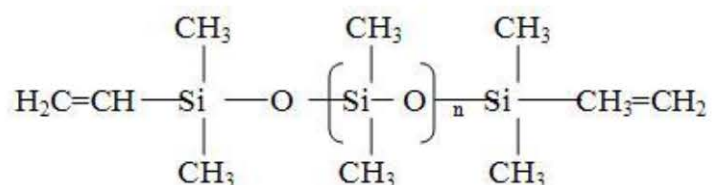
Sunmoon industry park, 985 Xingzhong Road,  
Bengbu, China 233000

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### TDS of IOTA 273 Vinyl silicone oil

#### Structural Formula



#### Description

1. This product is the end vinyl polydimethylsiloxane. It's an excellent and lively intermediate material
2. The product has the methyl silicone oil's common performance (such as : smoothness, limpness, bright, temperature and durability etc.
3. Two ends of vinyl have very strong reactivity, can have addition reaction with hydrogen silicone when under the action of catalyst .also can participate in a variety of other reactions.
2. Has better intermiscibility with organic material compare to methyl silicone oil, easier compatibility with other organic materials.
3. For containing lively double bond, easy to have reaction with organic material such as polyurethane, acrylic acid etc.

CAS: 68083-19-2

#### Typical Properties

| Viscosity<br>( 25°C, MPas) | Molecular weight | Vinyl content (%) | Density |
|----------------------------|------------------|-------------------|---------|
| 0.7                        | 186              | 29                | 0.81    |
| 2-3                        | 500              | 10-12             | 0.92    |
| 4-6                        | 770              | 7-9               | 0.93    |
| 10                         | 1000             | 5.4               | 0.95    |
| 20                         | 2000             | 2.7               | 0.95    |

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|        |        |           |      |
|--------|--------|-----------|------|
| 100    | 6000   | 0.8-1.2   | 0.97 |
| 200    | 9400   | 0.4-0.6   | 0.97 |
| 500    | 17200  | 0.37-0.43 | 0.97 |
| 1000   | 28000  | 0.18-0.26 | 0.97 |
| 3500   | 43000  | 0.12-0.15 | 0.97 |
| 5000   | 49500  | 0.10-0.13 | 0.97 |
| 10000  | 62700  | 0.08-0.12 | 0.97 |
| 20000  | 72000  | 0.06-0.09 | 0.98 |
| 65000  | 117000 | 0.04-0.06 | 0.98 |
| 165000 | 155000 | 0.03-0.04 | 0.98 |

### Application:

1. Use as high temperature vulcanizing silicone rubber (HTV) for the production of basic raw material, to enhance the hardness and strength of silicone rubber.
2. For the production of liquid silicone rubber, it's the main material of injection molding silicone rubber.
3. This product reaction with organic material such as polyurethane, acrylic acid etc., Can produce new material that have preferable performance (weathering resistance, ageing resistance, uvioresistant, reinforcing and toughening etc.) wide usages in the plastic, resin, paint, and coatings modified.

### Usage And Dosage

When used as additive or modified the quantity of 10%-20%, when used as base gule the quantity of 50%-100%

### Package and Transportation

1. This product should be stored airtight at room temperature in dry shade, not near the

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fire source, avoid sun exposure, avoid mixing of impurities (especially catalysts, acid substances);

2. With a 200 kg drum or 50 kg clean polyethylene plastic barrel packaging

3. Non-dangerous goods storage and transportation.

### Notices

This material have chemistry's lively, should not to mixed with impurities(especially the catalyst),when in use or compatibility of medicines, should be notice if have chemical reaction, prevent degeneration.

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