



TECHNOLOGY MAKES LIFE BETTER

安徽省蚌埠市高新区兴中路 985 号
日月科技园

电话: 86-552-3827158

传真: 86-552-3822922

安徽艾约塔硅油有限公司

IOTA CORPORATION LTD.

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

Tel: 86-552-3827158

Fax: 86-552-3822922

TDS of IOTA 201 Dimethicone/Methyl silicone oil

Dimethicone (methyl silicone oil)

Iota-201 dimethicone(methyl silicone oil), dimethicone chemical name: poly two methyl siloxane, molecular formula is: $(CH_3)_3SiO [(CH_3)_2SiO]_n-Si(CH_3)_3$

The product is a colorless and transparent new polymer materials, a variety of different viscosities (5cps ~ 2million cps), the liquid from flowing easily into a thick semi-solid material. This product has a special smoothness, softness, hydrophobicity, good chemical stability, excellent electrical insulation and resistance to high temperature. High flash point, low freezing point, long-term using between $-50\text{ }^\circ\text{C} \sim +200\text{ }^\circ\text{C}$, low viscosity-temperature coefficient, high compression ratio, low surface tension, water-repellent moisture resistance, low heat conduction coefficient.

Parameter:

Article	201-10	201-20	201-50	201-100	201-200	201-350
Viscosity(25°C)mpa.s	10±2	20±4	50±5	100±5	200±10	350±10
Flash point(≥°C)	160	210	270	310	310	310
Density (25°C)g/cm ³	0.930-0.940	0.945-0.955	0.955-0.965	0.960-0.970	0.962-0.972	0.965-0.975
Volatile(150°C,3h)%	3	2	1.5	1	1	1

Application:

Because it have special and excellent physical and chemical function, it can be used in many different industries:

1. Cosmetic industry for skin care cream, bath gel, shampoo and other cosmetic formulations with excellent softness and silky feel.
2. Rubber, plastic, latex, polyurethane, light industry: as a model release agent, brightener agent and release agent of some rubber, plastic, latex , polyurethane products and handicraft production.
3. Machinery, automotive, instrumentation, electronics and other industries used as high-grade lubricants, liquid springs, cutting fluids, buffers oil, transformer oil, high temperature brake fluid, brake fluid, instrumentation damping oil, mold release agents and other modeling framework.

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

Tel: 86-552-3827158; Fax: 86-552-3822922 Website: www.personalcaresilicone.com



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4. Textile, apparel industry as a softener, water repellent, feel modifiers, sewing thread lubrication, chemical fiber spinneret pressure lubrication and clothing lining additives.
 5. Add it to other additives in leather and leather chemicals industry, it can be used as softeners, water repellent, feel agents, defoamers, brighteners.
 6. Pharmaceutical, food, chemical, paint, building materials industry as defoamers, lubricants, and other weather-resistant paint.
 7. Other specific purposes and other new materials.

Dosage:

Depending on the application conditions, the concentration is from a few PPM up to 100% range.

Dimethicone (methyl silicone oil) Note:

With a high concentration of acid or alkali substances and Lewis acid has a tendency to degrade volatile exposure, the higher the temperature of the reaction is more obvious. Low concentration in contact with strong acid or alkali at high temperatures or prolonged action of the viscosity tends to become larger until cross-linked.

Packaging and Storage:

1. 50 kg polyethylene plastic buckets or drums 200 kg
2. Should be stored airtight in a dry and ventilated place, avoid acid, alkali substances.
3. Non-dangerous goods storage and transportation.

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

TeL: 0086-552-7183958 Fax: 0086-552-3822922

Mobile/What's app/Wechat: 0086-18055289988

Skype: arielyang1988

QQ: 2302519534

Email: info@personalcaresilicone.com

Website: www.personalcaresilicone.com

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