



# GW-201 Silicone Oil

Polydimethylsiloxane (PDMS)

## Description:

- Chemical name : Polydimethylsiloxane
- CAS No. : 63148-62-9 9016-00-6 9006-65-9
- EINECE : 203-492-7
- MF: CH<sub>3</sub>[Si(CH<sub>3</sub>)<sub>2</sub>]<sub>n</sub>Si(CH<sub>3</sub>)<sub>3</sub>
- Color: Colorless Transperant
- Purity: 99.9%
- Appearance:Liquid

## Typical Parameters:

GW-201 Series								
Item	#201-10	#201-20	#201-50	#201-100	#201-350	#201-500	#201-800	#201-1000
Kinematic viscosity mm <sup>4</sup> /s (25°C) Cst	10±2	20±2	50±5	100±8	350±18	500±18	800±40	1000±50
Refractivity (25 °C)	1.390-1.400	1.395-1.405	1.400-1.410	1.400-1.410	1.400-1.410	1.400-1.410	1.400-1.410	1.400-1.410
Flashing point (25 °C)	155	232	260	288	300	300	300	300
Specific gravity (25 °C)	0.930-0.940	0.950-0.960	0.955-0.965	0.965-0.975	0.965-0.975	0.965-0.975	0.965-0.975	0.965-0.975
Freezing point (25 °C)	-65	-60	-55	-55	-50	-50	-50	-50
Appearance	Colorless							
Dielectric constant (25 °C)				2.60-2.80				
tanδ (25 °C)				≤1.0 ×10 <sup>4</sup>				
Volume resistivity (Ω/cm) (25 °C)				≥1.0 ×10 <sup>4</sup>				
Dielectric strength (kV/mm)				≥1				



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The above data can not be used to prepare product specification. Contact Green Will to confirm the suitability before production preparation.

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## Applications

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### - Surfactants and antifoaming agents

PDMS are common components of defoamers, which are used to suppress the formation of foams. PDMS in a modified form is used as an herbicidal penetrant and is a critical ingredient in water-repelling coatings, such as Rain-X.

### - Hydraulic fluids and related applications

Dimethicone is also the active silicone fluid in automotive viscous limited slip differentials and couplings. This is usually a non-serviceable OEM component but can be replaced with mixed performance results due to variations in effectiveness caused by refill weights or non-standard pressurisations.

### - Cosmetics

PDMS is used variously in the cosmetic and consumer product industry as well. For example, PDMS can be used in the treatment of head lice and dimethicone is used widely in skin-moisturizing lotions where it is listed as an active ingredient whose purpose is "skin protection." Some cosmetic formulations use dimethicone and related siloxane polymers in concentrations of use up to 15%. The Cosmetic Ingredient Review's (CIR) Expert Panel, has concluded that dimethicone and related polymers are "safe as used in cosmetic formulations."

### - Domestic and niche uses

Many people are indirectly familiar with PDMS because it is an important component in Silly Putty, to which PDMS imparts its characteristic viscoelastic properties. The rubbery, vinegary-smelling silicone caulks, adhesives, and aquarium sealants are also well-known. PDMS is also used as a component in silicone grease and other silicone based lubricants, as well as defoaming agents, mold release agents, damping fluids, heat transfer fluids, polishes, cosmetics, hair conditioners and other applications. PDMS has also been used as a filler fluid in breast implants, although this practice has decreased somewhat, due to safety concerns.

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## Packing

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200 kg / iron drum or 50 kg / sealed plastic barrel.

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## Product Safety and Storage

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The shelf life of GW-201 series is 12 months under room temperature (max 27°C) in original unopened container. Keep the container in sealed condition after use.

Customers shall read the most updated MSDS, product safety instruction and storage tags. If necessary, the personal protect device shall be used during operation. MSDS is available at [www.greenwill.hk](http://www.greenwill.hk) or by contacting our sales representatives.

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## Limited Warranty Information

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Based on good faith, the information provided is considered as accurate and correct. However, due to the ways of using this materials vary to different customers, this information can not represent the test result at customer's side as confirmation of the product safety, effectiveness and suitability. Our suggestion shall not be taken as the reason of infringement of any patents. Green Will only guarantees that our products meet the specification when they were delivered.

Green Will announces not to express or implied any guarantee on the suitability in application and sales for special purpose.

Green Will announces not to take any responsibility of direct or indirect damage. For more information, please log onto our website [www.greenwill.hk](http://www.greenwill.hk) or contact with our local authorized distributors.

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Green Will Technology Co., Ltd.  
Flat/RM VA UNIT 2 22/F, RICHMOND COMM BLDG  
KL 999077, HONGKONG

[www.greenwill.hk](http://www.greenwill.hk)  
[info@greenwill.hk](mailto:info@greenwill.hk)