



201 Dimethyl silicone oil:

chemical name is Polydimethylsiloxane, which formula is $(\text{CH}_3)_3\text{SiO}[(\text{CH}_3)_2\text{SiO}]_n\text{Si}(\text{CH}_3)_3$, this products is a kind of transparent, colorless polydimethylsiloxane liquid, available viscosities ranging from 10cps to 5000000cps.

Features

- 1) Little change in physical properties over a wide temperature span - arelatively flat viscosity-temperature slope, and serviceability from -50°C up to 200°C.
- 2) Excellent water repellency.
- 3) Good dielectric properties over a wide range of temperatures and frequencies.
- 4) Low surface tension - readily wets clean surfaces to impart water repellency and release characteristics.
- 5) Viscosities above 10 mm²/s also exhibit heat stability, oxidation resistance, very low vapor pressures, and high flash point.
- 6) Low order of toxicity
- 7) Essentially odorless
- 8) Soluble in a wide range of solvent
- 9) Non-greasy and non-rancidifying

Specification

Model	201-10	201-20	201-50	201-100	201-200	201-5000
Viscosity(25°C) mpa.s	10±2	20±4	50±5	100±5	200±10	5000±400
Flash point(≥) °C	160	210	270	310	310	---
Density (25°C) g/cm ³	0.930-0.940	0.955-0.965	0.945-0.955	0.960-0.970	0.962-0.972	0.965-0.975
Volatile Content (150°C, 3h)%	3	2	1.5	1.0	1.0	1.0

Application

RELEASE MATERIAL: Used alone or as part of a compounded formula,

201 Fluid provides a non-carbonising mould release for rubber, plastics, and metal die castings.

FOAM PREVENTITIVE: Extremely small amounts of the fluid effectively control foam in many processing operations, especially in non-aqueous systems.

MECHANICALFLUID:Excellent viscosity-temperature characteristics, thermal and chemical stability, shear-breakdown resistance, compressibility, and rubber





compatibility make 201 Fluid outstanding for mechanical/ hydraulic uses. Typical uses include hydrolic stabilisers, damping media.

- **SURFACE-ACTIVE MATERIAL:** Added to vinyl plastisols, 201 Fluid improves the flow characteristics, de-aerates and lubricates the surface of the completed part.
- **LUBRICANT:** The fluid provides excellent lubrication for most plastic and elastomeric surfaces. Lubricity with metals depends upon the combination involved. Care should be taken to select suitable metals for pumps and other items with moving parts.
- **COSMETICS AND SKIN PREPARATIONS:** 201 Fluid is an important ingredient in hand creams, skin protectants, suntan lotions, and hair grooming aids because it forms a non-greasy, protective film which resists water and waterborne irritants, yet allows the skin to breathe. Literature is available that details the use of the fluid in cosmetics.
- **POLISHES AND CHEMICAL SPECIALITIES:** 201 Fluid is used in most automobile and furniture polishes for its ease of application, high gloss with minimum rubbing, and a durable water-repellant film. It is also used in many other specialty formulations, including aerosol starches and fabric conditioners. Additional literature is available.
- **ELECTRICAL/ELECTRONIC EQUIPMENT:** With excellent dielectric properties, 201 Fluid can be used for both insulating and damping applications.
- **LUBRICATE FOR MEDICAL, FOOD, CHEMICAL, COATING AND INDUSTRIAL TRADE.**

HOW TO USE

Use accordingly with the use level from several PPM to 100%.

PRODUCT SAFETY INFORMATION

201 Silicone Fluid is sensitive to contamination by acids, bases, and Lewis acids which may cause degradation and volatilization, especially when temperatures elevated. Low concentration of acids or bases contamination or exposed to high temperatures under long-term may cause an increase in fluid viscosity or even cross-linking.

STORAGE

Store at normal temperature in original, unopened containers, avoid contact with acids and bases.

PACKAGING

200kg metal drums, IBC totes or according to your needs.

SHIPPING

Ship the product as non-dangerous goods.

