Technical Data Sheet

SF1258 silicone fluid

Description

SF1204, SF1256 and SF1258 silicone fluids are mixtures of cyclic dimethyl siloxanes. SF1204 is ~15% cyclopentasiloxane and ~85% cyclotetrasiloxane, SF1256 is ~25% cyclohexasiloxane and ~75% cyclopentasiloxane, and SF1258 silicone fluid is ~35% cyclohexasiloxane and ~65% cyclopentasiloxane. SF1173 and SF1202 silicone fluids are mainly single component of volatile cyclic dimethyl siloxanes where SF1173 is primarily cyclotetrasiloxane, and SF1202 is primarily cyclopentasiloxane.

Key Features and Benefits

- Volatility
- Spreadability
- Lubricity
- Compatible with many organic materials, solvents
- Low surface tension and viscosity
- No oily residue
- Improves efficacy of antiperspirants
- Dry non-greasy feel
- Improves wet combing
- Greater flexibility in formulating cosmetic products
- Rapid and complete coating during particle treatment

Typical Physical Properties

Property	SF1173	SF1202	SF1204	SF1256	SF1258

Viscosity 25°C (77°F), cSt	2.4	4.1	2.5	4.5	5.0
Boiling Point, °C	175.8	210	175.8	212	216
Boiling Point, °F	348	410	348	~414	~421
Flash Point, (closed cup) °C	~57	~76	62	82	83
Flash Point, (closed cup) °F	135	170	143.6	~180	~181
Refractive Index 25°C (77°F)	1.3940	1.3960	1.3945	1.397	1.3973
Specific Gravity @ 25/25°C (77/77°F)	0.95	0.95	0.95	0.96	0.96
Freezing Point, °C	17.5	-40	11	< -40	< -40
Freezing Point, °F	64	-40	~52	< -40	< -40

Potential Applications

- Antiperspirants
- Skin Care Products
- Sunscreen Products
- Hair Conditioners
- Facial Make-Up
- Particle Treatment

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information

provided by the manufacturer of such other materials.

Limitations
Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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