

SF1550

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INCI NAME

Phenyl Trimethicone

Description

SF1550 is a phenyl substituted silicone fluid which is compatible with organic materials used in personal care products. It provides gloss and sheen in hair care products, emolliency and water repellancy in skin care products and detackification in cosmetic products.

Key Features and Typical Benefits

- Gloss, sheen and heat resistance in hair care applications.
- Non-oily emolliency and antiwhitening properties in antiperspirants.
- Soft smooth feel in skin care applications while acting as a water barrier.
- Detackification and emolliency in cosmetic products.

Typical Physical Properties

| Property | Value |
|-------------------------------|-------------|
| Silicone Solids,% | 100 |
| Viscosity @ 25°C (77°F), cSt. | 15 - 30 |
| Specific Gravity | 0.97 - 0.99 |
| Color, APHA Max | 15 |

| | |
|-------------------------------|--------------|
| Appearance | Clear Liquid |
| Flash point min., °C (°F) | 123 (254) |
| Refractive Index, 25°C (77°F) | 1.45 - 1.47 |
| Turbidity, (ntu) | 5 Max. |

| | Momentive Specification Ranges | |
|------------------|---------------------------------------|------------|
| Property | Min | Max |
| Specific Gravity | 0.97 | 0.99 |
| Ref Index @ 25C | 1.4549 | 1.4626 |

Solubility data

Key: I = Insoluble at < 1% by weight

PS = Partially Soluble at 1-10% by weight

S = Soluble at 10% by weight or higher

| | |
|---|--------|
| MATERIAL | SF1550 |
| Water | I |
| Mineral Spirits | S |
| Isopar E, G, L | S |
| Mineral Oil 65/75 SUS | S |
| Mineral Oil 200/210 SUS | S |
| Oleic Acid | S |
| Castor Oil | PS |
| Ethanol 95% | S |
| Ethanol SDA-40 | S |
| Isopropanol | S |
| n-Butanol | S |
| n-Amyl Alcohol | S |
| 2-Ethyl Hexanol | S |
| Lauryl Alcohol | S |
| Cetyl Alcohol | S |
| Oleyl Alcohol | S |
| Propylene Glycol | I |
| Glycerin | I |
| PEG-6 | I |
| Isopropyl Palmitate | S |
| Isopropyl Myristate | S |
| TEA Lauryl Sulfate (40%) | I |
| Polyoxyethylene (20) Sorbitan monoleate | I |
| Sorbitan Oleate | PS |
| Cyclotetrasiloxane (SF1173) | S |
| Cyclopentasiloxane (SF1202) | S |
| Dimethicone (SF96-200) | S |
| Amodimethicone (SF1708) | S |
| Diisostearoyl Trimethylolpropane Siloxy Silicate (SF1318) | S |
| Cetearyl Methicone (SF1632) | I |

Potential Applications

SF1550 silicone fluid can be used in hair care products, antiperspirants, skin care products and cosmetics to improve their aesthetics and functionality.

General Instructions for Use

SF1550 is added to the Oil or Silicone phase.

SF1550 can be cold processed.

Suggested level of Use: 1 - 5%

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

The warranty period is 24 months from date of shipment from Momentive Performance Materials if stored in the original unopened container at 25°C (77°F).

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.

Contact Information

Email

commercial.services@momentive.com

Telephone

| Americas | Latin America | EMEAI- Europe, Middle East, Africa & India | ASIA PACIFIC |
|-------------------------|----------------------|---|---------------------|
| +1 800 295 2392 | Brazil | Europe | China |
| Toll free* | +55 11 4534 9650 | +390510924300 | 800 820 0202 |
| +704 805 6946 | Direct Number | Direct number | Toll free |
| Direct Number | | | +86 21 3860 4892 |
| | | | Direct number |
| *All American countries | Mexico | India, Middle East & Africa | Japan |
| | +52 55 2169 7670 | + 91 44 71212207 | +81 3 5544 3111 |
| | Direct Number | Direct number* | Direct number |
| | | *All Middle Eastern countries, Africa, India, | Korea |
| | | | +82 2 6201 4600 |

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