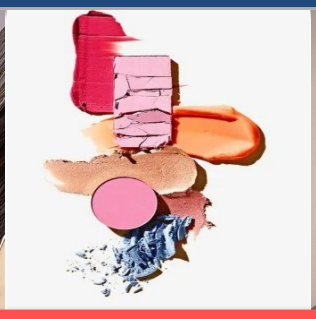
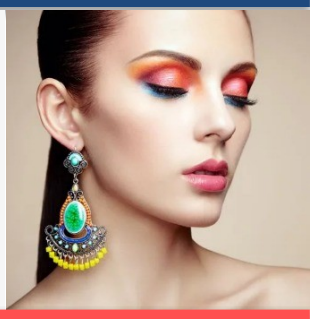
MANTA

# Silicone For Personal Care

## Cosmetic Silicone Ingredients · Product Range

Silicone elastomer gels · PMSQ powder · MQ resin film formers · Silicone emulsifiers · Silicone waxes · Functional, volatile & compound silicone fluids



Nanjing Manta New Material Co., Ltd

www.mantasilicone.com



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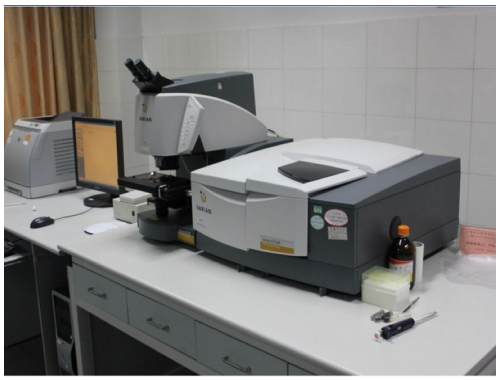
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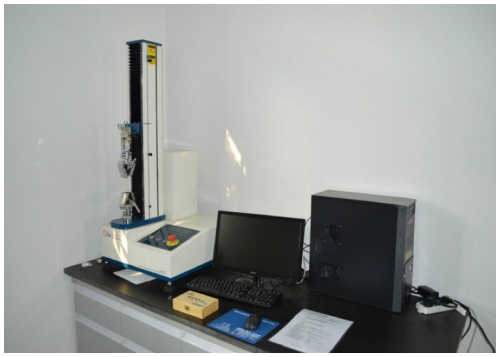
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# Manta Introduction

Nanjing Manta New Material Co., Ltd. (Manta) is a supplier of cosmetic silicone ingredients for personal care, and of silicone and organic fluorine fine chemicals. Our personal care range covers silicone elastomer gels, silicone resin powder (PMSQ), MQ/MTQ silicone resin film formers, silicone emulsifiers, silicone waxes, and functional, volatile and compound silicone fluids (silicone gum blends): 47 grades, each documented with a technical data sheet (TDS).



Formulators use Manta silicones to build texture and a light, non-greasy skin feel, long wear and transfer resistance, conditioning and shine for hair, and stable water-in-oil and water-in-silicone emulsions in skin care, hair care, color cosmetics, sun care and body care products. As your partner from concept to consumer, we bring you the essential ingredients that empower your brand to create products that inspire beauty and confidence.



Samples and technical documents are available on request: sales@mantasil.com · www.mantasilicone.com





# Silicone Elastomer Gel & Silicone Resin Powder

## Silicone Elastomer Gel

Silicone elastomer gels are crosslinked silicones (dimethicone or dimethicone/vinyl dimethicone crosspolymer) swollen in cyclopentasiloxane or dimethicone; they thicken the oil phase and give primers, foundations and creams a smooth, powdery, soft-focus feel.

| Product | INCI | Appearance | Non-volatile Content (%) | Viscosity (25°C) |
|---|---|---|---|---|
| **Manta G700** | Cyclopentasiloxane (and) Dimethicone Crosspolymer | Colorless to slightly yellow transparent to translucent paste | ≥ 14 | 250,000-580,000 mPa·s |
| **Manta G700-P3** | Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer | Transparent to translucent paste | ≥ 14 | 250000-580000 mPa·s |
| **Manta G700B** | Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer | Colorless to slightly yellow transparent to translucent paste | > 70 | 250,000-580,000 mPa·s |
| **Manta G701A** | Cyclopentasiloxane (and) Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer | Transparent to translucent paste | ≥ 25 | 50000-200000 mPa·s |
| **Manta G703B** | Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer | Colorless to slightly yellow transparent to translucent paste | >70 | 250,000-580,000 mPa·s |

## Silicone Resin Powder

PMSQ (polymethylsilsesquioxane) is a spherical silicone resin powder that adds slip, a matte soft-focus finish and oil absorption to pressed powders, foundations and sunscreens.

| Product | INCI | Appearance | Density ($g/cm^3$) | Oil Absorption (paraffin oil) | Average Particle Size (μm) |
|---|---|---|---|---|---|
| **Manta PMSQ** | Polymethylsilsesquioxane | White powder | 1.25-1.35 | 0.6-0.9 | 2-4(down to 0.7-0.8) |

Typical values, not to be used as specifications. Please refer to the TDS of each product.

# Silicone Resin Film-forming Agent & Silicone Emulsifier

## Silicone Resin Film-forming Agent

MQ and MTQ silicone resins (trimethylsiloxysilicate) are film formers that create a flexible, water-resistant film for long-wear, transfer-resistant foundations, lip colors, mascaras and sunscreens.

| Product | INCI | Appearance | Viscosity (25°C) | Specific Gravity / Bulk Density | Refractive Index (25°C) | Volatile Content (150°C, 3h) |
|---|---|---|---|---|---|---|
| **Manta A202** | Trimethylsiloxysilicate | White powder | / | 0.45-0.75 g/cm³ (bulk) | / | ≤ 2 % |
| **Manta A2024** | Trimethylsiloxysilicate (and) Polypropylsilsesquioxane | White powder or flakes | / | 0.45 - 0.75 g/cm³ (bulk) | / | ≤ 2.0 % |
| **Manta A203** | Trimethylsiloxysilicate (and) Cyclopentasiloxane | Colorless transparent to slightly yellow slightly turbid liquid | 300~500 mPa·s | 1.000-1.100 | 1.4000-1.4070 | / |
| **Manta A203B** | Trimethylsiloxysilicate (and) Dimethicone | Colorless to pale yellow viscous liquid | 400 - 1000 cSt | / | 1.40 - 1.41 | / |

## Silicone Emulsifier

Silicone emulsifiers (alkyl- and PEG-modified dimethicones) stabilize water-in-oil and water-in-silicone emulsions for light, non-greasy creams, BB creams and liquid foundations.

| Product | INCI | Appearance | Viscosity (25°C) | Specific Gravity (25°C) | Refractive Index (25°C) |
|---|---|---|---|---|---|
| **Manta E1011** | Cetyl PEG/PPG-10/1 Dimethicone | Colorless to pale yellow viscous liquid | 600 - 2000 cSt | 0.920 ~ 0.960 | / |
| **Manta E1035** | Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone | Light yellow liquid | 100~1000 cSt | 0.950-1.050 | 1.4300-1.4500 |
| **Manta E1036** | PEG-10 Dimethicone | Colorless to slightly yellow transparent to translucent liquid | 400~1600 cSt | 1.00-1.05 | 1.4100-1.4300 |

Typical values, not to be used as specifications. Please refer to the TDS of each product.

# Silicone Wax & Compound Silicone Fluid

## Silicone Wax

Silicone waxes combine wax structure with silicone slip: a water-soluble PEG-17 dimethicone wax for aqueous systems and oil-soluble alkyl silicone waxes for sticks, creams and balms.

| Product | INCI | Appearance | Melting Point (°C) | Specific Gravity / Relative Density | Viscosity (25°C) |
|---|---|---|---|---|---|
| **Manta W330<br>W330A<br>W330B** | PEG-17 Dimethicone | Milky white semi-solid | 33~40<br>40~46<br>33~40 | 1.050~1.090<br>1.040~1.080<br>1.050~1.090 | / |
| **Manta W340-25** | Cetearyl Methicone | White waxy solid | 30~40 | 0.800~0.850 | / |
| **Manta W341** | Cetyl Dimethicone | Colorless to pale yellow liquid | / | 0.820 - 0.860 | 20 - 100 cSt |

## Compound Silicone Fluid

Compound silicone fluids (silicone gum blends) are high-molecular-weight dimethicone or dimethiconol gums pre-dissolved in dimethicone or cyclosiloxanes, ready to add conditioning, shine and a protective film to hair and skin care.

| Product | INCI | Appearance | Viscosity (25°C) | Specific Gravity (25°C) | Refractive Index (25°C) |
|---|---|---|---|---|---|
| **Manta F10161** | Cyclopentasiloxane (and) Dimethicone | Colorless transparent fluid | 3,500~5,500 cSt | 0.945-0.965 | 1.3950-1.4050 |
| **Manta F1016A (3 grades)** | Dimethicone (and) Cyclomethicone | Colorless transparent viscous fluid | 5000-6000cSt<br>6000-7000cSt<br>10000-12000cSt | 0.920-0.950 | 1.396-1.435 |
| **Manta F1016C (3 grades)** | Cyclopentasiloxane (and) Dimethiconol | Colorless transparent viscous fluid | 5000~7000<br>6000~8000<br>15000~17000 cSt | 0.950-0.970 | 1.396-1.405 |
| **Manta F1017** | Dimethiconol (and) Dimethicone | Colorless transparent fluid | 1,200~2,500 cSt | 0.920-0.965 | 1.3950-1.4050 |
| **Manta F1017A** | Dimethicone (and) Dimethiconol | Colorless transparent fluid | 3,000~5,000 cSt | 0.900-0.940 | 1.395-1.405 |
| **Manta F1047** | Cyclotetrasiloxane (and) Cyclopentasiloxane (and) Dimethiconol | Transparent viscous liquid | 6000 mPa·s | 0.96 | 1.397 |

Typical values, not to be used as specifications. Please refer to the TDS of each product.

# Functional Silicone Fluid

Functional silicone fluids are dimethicones modified with amino, phenyl, alkyl, polyether (PEG/PPG) or carbinol groups to add conditioning, gloss, water solubility or compatibility with organic ingredients; high-viscosity dimethicone is listed here too.

| Product | INCI | Viscosity (25°C) | Specific Gravity (25°C) | Refractive Index (25°C) | Other |
|---|---|---|---|---|---|
| **Manta F1006 (high viscosity)** | Dimethicone | 60,000 – 1,200,000 cSt (5 grades) | / | / | Flash point ≥ 315 °C |
| **Manta F1012** | Lauryl Dimethicone | 2.0-6.0 mPa·s | 0.810-0.840 | 1.4100-1.4300 | / |
| **Manta F1019** | PEG/PPG-15/15 Dimethicone | 300-600 cSt | 1.035-1.060 | 1.4500-1.4600 | / |
| **Manta F1030** | Amodimethicone | 2500-6000 cSt | 0.960-0.990 | 1.4000-1.4150 | Amine value 0.36 mmol/g |
| **Manta F1030A** | Amodimethicone | 2500-6000 cSt | 0.960-0.990 | 1.4000-1.4150 | Amine value 0.2 mmol/g |
| **Manta F1031** | Bis-aminopropyl Dimethicone | 1,000-20,000 cSt | 0.950-1.000 | 1.3950-1.4150 | Amine value 0.06 mmol/g |
| **Manta F1039** | PEG-12 Dimethicone | 250-500 cSt | 1.070-1.080 | 1.4500-1.4600 | Cloud point ≥ 90 °C |
| **Manta F1056** | Phenyl Dimethicone | 15-30 cSt | 0.970-0.990 | 1.4549-1.4626 | / |
| **Manta F1056A** | Phenyl Dimethicone | 50-100 cSt | 1.020-1.030 | 1.4550-1.4700 | / |
| **Manta F1057** | Phenyl Trimethicone | 18-27 cSt | 0.980-1.025 | 1.4600-1.4690 | / |
| **Manta F1230** | Bishydroxyethoxypropyl Dimethicone | 60 cSt | / | 1.42 | / |
| **Manta F2012** | Aminopropyl Phenyl Trimethicone | 1000-5000 cSt | 1.00-1.15 | 1.4900-1.5100 | / |

Typical values, not to be used as specifications. Please refer to the TDS of each product.

# Volatile Silicone Fluid

Volatile and low-viscosity silicone fluids — linear dimethicones (0.65–2 cSt), alkyl- and phenyl-modified trimethicones and cyclosiloxanes (D4, D5, D6) — spread easily and leave a light, dry, non-greasy finish; the volatile grades evaporate after application.

| Product | INCI | Viscosity (25°C) | Specific Gravity (25°C) | Refractive Index (25°C) | Flash Point (°C) |
|---|---|---|---|---|---|
| **Manta F1006-0.65cSt** | Disiloxane | 0.65-1.20 cSt | 0.750-0.770 | 1.3730-1.3770 | -1 |
| **Manta F1006-1cSt** | Trisiloxane | 0.9-1.10 cSt | 0.82 | 1.3830-1.3850 | 29 |
| **Manta F1006-1.5cSt** | Dimethicone | 1.4-1.6 cSt | 0.83-0.87 | 1.385-1.395 | 63 |
| **Manta F1006-2cSt** | Dimethicone | 1.8-2.2 cSt | 0.85-0.89 | 1.390-1.410 | 80 |
| **Manta F1043** | Methyl Trimethicone | 1.25-1.75 cSt | 0.800-0.900 | 1.3800-1.3900 | / |
| **Manta F1042** | Caprylyl Trimethicone | 2.0-4.0 mPa·s | 0.800-0.900 | 1.4050-1.4150 | / |
| **Manta F1042A** | Caprylyl Methicone | 2.0-4.0 mPa·s | 0.800-0.900 | 1.4050-1.4150 | / |
| **Manta F10412** | Lauryl Dimethicone | 5.5-7.0 mPa·s | 0.800-0.900 | 1.4050-1.4250 | / |
| **Manta F1046** | Phenyl Trimethicone | 3.0-7.0 cSt | 0.850-0.950 | 1.4300-1.4500 | / |
| **Manta F1045** | Cyclopentasiloxane | 3.0-5.0 cSt | 0.950-0.960 | 1.3850-1.4050 | / |
| **Manta F10451** | Cyclotetrasiloxane (and) Cyclopentasiloxane | 2.2 cSt | 0.950 | 1.396 | / |
| **Manta F1048** | Cyclopentasiloxane (and) Cyclohexasiloxane | 3.0-8.0 cSt | 0.950-0.960 | 1.3900-1.4050 | / |
| **Manta F1049** | Cyclohexasiloxane | 4.0-8.0 cSt | 0.950-0.970 | 1.3900-1.4050 | / |

Typical values, not to be used as specifications. Please refer to the TDS of each product.

# Manta Silicone Offset

Cross-reference of Manta cosmetic silicones to commonly used grades from Dow, Shin-Etsu, Wacker, Momentive and Evonik.

| MANTA | Dow | Shin-Etsu | Wacker | Momentive | Evonik |
|---|---|---|---|---|---|
| **Silicone Elastomer Gel** | | | | | |
| **Manta G700** Silicone Elastomer Gel | DC-9040 (E) | KSG-15 (S) | RG 100 (S) | SFE839 (S) | / |
| **Manta G700-P3** Silicone Elastomer Gel | DC-9566 (S) | KSG-15 (E) | EG 5 (E) | SFE839 (E) | / |
| **Manta G700B** Silicone Elastomer Gel | DC-9041 (S) | KSG-16 (E) | EG 1200 (S) | Velvesil DM LC (S) | / |
| **Manta G701A** Silicone Elastomer Gel | DC-9566 (E) | KSG-15 (S) | EG 5 (S) | SFE839 (S) | / |
| **Manta G703B** Silicone Elastomer Gel | DC-9041 (S) | KSG-16 (E) | EG 1200 (S) | Velvesil DM LC (S) | / |
| **Silicone Resin Powder** | | | | | |
| **Manta PMSQ** Silicone Resin Powder | / | KMP-590 (E) | PMS MK (S) | Tospearl 120A (E) | / |
| **Silicone Resin Film-forming Agent** | | | | | |
| **Manta A202** Methyl MQ Silicone Resin | MQ-1600 (I) | / | TMS 803 (I) | SR1000 (I) | / |
| **Manta A2024** Methyl Propyl MTQ Resin | MQ-1640 (E) | / | / | / | / |
| **Manta A203** Silicone Resin Mixture | RSN-0749 (I) | KF-7312J (E) | / | SS4230 (E) | / |
| **Manta A203B** Silicone Resin Mixture | DC-593 (I) | KF-7312K (E) | / | SS4267 (E) | / |
| **Silicone Emulsifier** | | | | | |
| **Manta E1011** Silicone Emulsifier | DC-5200 (S) | KF-6048 (E) | / | / | ABIL EM 90 (E) |
| **Manta E1035** Water-in-oil Emulsifier | ES-5300 (S) | KF-6038 (E) | / | / | / |
| **Manta E1036** Water-in-oil Emulsifier | ES-5612 (E) | KF-6017 (E) | / | Silsoft 860 (S) | / |
| **Silicone Wax** | | | | | |
| **Manta W330** Water-soluble Silicone Wax | DC-2501 (S) | KF-6070W (E) | DMC 6038 (S) | Silsoft 895 (E) | / |
| **Manta W340-25** Oil-soluble Silicone Wax | DC-2503 (S) | / | SDM 5055 VP (S) | SF1632 (E) | / |
| **Manta W341** Oil-soluble Silicone Wax | DC-2502 (E) | / | / | / | ABIL Wax 9801 (E) |
| **Functional Silicone Fluid** | | | | | |
| **Manta F1006** High Viscosity Dimethicone | PMX-200 (I) | KF-96H (I) | DM (I) | SF96 (S) | ABIL 350 (S) |
| **Manta F1019** Water-soluble Silicone Fluid | DC-5330 (E) | / | DMC 6031 (S) | SF1188A (S) | ABIL B 8863 (S) |
| **Manta F1030** Amino Silicone Fluid | DC-2-8566 (E) | KF-8004 (E) | ADM 1650 (E) | SF1708 (E) | / |
| **Manta F1030A** Amino Silicone Fluid | AP-8087 (S) | KF-8004 (E) | ADM 1650 (S) | SF1708 (S) | / |
| **Manta F1031** Amino Silicone Fluid | / | KF-8015 (S) | / | / | / |
| **Manta F1039** Water-soluble Silicone Fluid | DC-193C (E) | KF-6043 (S) | DMC 6031 (S) | Silsoft 876 (E) | ABIL B 8843 (S) |
| **Manta F1056** Phenyl Silicone Fluid | DC-556 (S) | KF-56A (S) | PDM 20 (S) | SF1555 (S) | / |
| **Manta F1056A** Phenyl Silicone Fluid | DC-556 (S) | / | / | / | / |
| **Manta F1057** Phenyl Silicone Fluid | DC-556 (I) | KF-56A (S) | PDM 20 (S) | SF1550 (E) | / |
| **Manta F1230** Carbinol Silicone Fluid | DC-5562 (E) | / | / | / | / |
| **Manta F2012** Aminophenyl Silicone Fluid | DC-2-2078 (I) | / | / | / | / |
| **Volatile Silicone Fluid** | | | | | |
| **Manta F1006 (0.65cSt)** Dimethyl Silicone Fluid | PMX-200 0.65cSt (I) | / | DM 0.65 (I) | / | / |
| **Manta F1006 (1cSt)** Dimethyl Silicone Fluid | PMX-200 1cSt (I) | KF-96A-1cs (I) | DM 1 Plus (S) | / | / |
| **Manta F1006 (1.5cSt)** Dimethyl Silicone Fluid | PMX-200 1.5cSt (I) | KF-96L-1.5cs (I) | DM 1 Plus (S) | / | / |
| **Manta F1006 (2cSt)** Dimethyl Silicone Fluid | PMX-200 2cSt (I) | KF-96L-2cs (I) | / | / | / |
| **Manta F1043** Methyl Silicone Fluid | / | TMF-1.5 (I) | / | Silsoft ETS (S) | / |
| **Manta F1042** Caprylyl Silicone Fluid | FZ-3196 (S) | KF-4418 (S) | / | Silsoft 034 (S) | / |
| **Manta F1042A** Caprylyl Silicone Fluid | FZ-3196 (I) | KF-4418 (I) | / | Silsoft 034 (I) | / |
| **Manta F1046** Phenyl Silicone Fluid | DC-556 (E) | KF-56A (S) | PDM 20 (S) | SF1550 (E) | / |
| **Manta F1045** Cyclic Silicone Fluid | DC-245 (I) | KF-995 (I) | CM 040 (I) | SF1202 (I) | / |
| **Manta F10451** Cyclic Silicone Fluid | PMX-0344 (E) | / | / | SF1204 (E) | / |
| **Manta F1048** Cyclic Silicone Fluid | DC-345 (E) | / | / | SF1257 (E) | / |
| **Manta F1049** Cyclic Silicone Fluid | DC-246 (E) | / | / | SF1217 (E) | / |
| **Compound Silicone Fluid** | | | | | |
| **Manta F10161** Hair & Skin Care Silicone Fluid | PMX-1411 (E) | KF-9008 (E) | / | SF1214 (E) | / |
| **Manta F1016A** Hair & Skin Care Silicone Fluid | PMX-1411 (S) | KF-9008 (S) | / | SF1214 (S) | / |
| **Manta F1016C** Hair & Skin Care Silicone Fluid | DC-1501 (E) | X-21-5666 (E) | CM 1000 (I) | / | ABIL OSW 5 (E) |
| **Manta F1017** Hair & Skin Care Silicone Fluid | DC-1503 (I) | X-21-5613 (E) | DM 3096 (E) | Silsoft GB 16 (E) | / |
| **Manta F1017A** Hair & Skin Care Silicone Fluid | DC-1403 (E) | X-21-5613 (E) | DM 3096 (E) | Silsoft GB 16 (E) | / |
| **Manta F1047** Compound Silicone Fluid | PMX-1401 (E) | X-21-5666 (S) | CM 1000 (S) | / | / |

I = Identical; E = Equivalent; S = Similar. Benchmarks are for reference only; please evaluate in your own formulation.

MANTA



How can we help you today?
When you need application assistance, Manta is glad to help.
Our team is looking forward to hearing from you.

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