

Silicone Products for Personal Care



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1 Dimethyl Silicone Fluids

| Grade \ Parameter | INCI | Viscosity 25°C mm ² /s | Specific Gravity 25°C | Refractive Index 25°C | Volatile Matter 150°C x 24 h % | Pour Point °C | Flash Point °C | Chinese INCI |
|---------------------------|-------------|---|--------------------------|--------------------------|--------------------------------------|------------------|-------------------|-----------------|
| KF-96A-1cs | TRISILOXANE | 1 | 0.818 | 1.382 | Boiling point 153°C | -100 | 37 | ● |
| KF-96L-1.5cs | DIMETHICONE | 1.5 | 0.852 | 1.387 | Boiling point 194°C | < -90 | 64 | ● |
| KF-96L-2cs | DIMETHICONE | 2 | 0.873 | 1.391 | Boiling point 229°C | < -120 | 88 | ● |
| KF-96A-5cs | DIMETHICONE | 5 | 0.915 | 1.396 | < 40*1 | < -110 | 102 | ● |
| KF-96A-6cs | DIMETHICONE | 6 | 0.925 | 1.397 | < 5.0*1 | < -100 | 174 | ● |
| KF-96A-10cs | DIMETHICONE | 10 | 0.935 | 1.399 | < 40 | < -100 | > 160 | ● |
| KF-96A-20cs | DIMETHICONE | 20 | 0.950 | 1.400 | < 4.0 | < -60 | > 260 | ● |
| KF-96A-30cs | DIMETHICONE | 30 | 0.955 | 1.401 | < 1.5 | < -55 | > 280 | ● |
| KF-96A-50cs | DIMETHICONE | 50 | 0.960 | 1.402 | < 0.5 | < -50 | > 310 | ● |
| KF-96A-100cs | DIMETHICONE | 100 | 0.965 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96A-200cs | DIMETHICONE | 200 | 0.970 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96A-300cs | DIMETHICONE | 300 | 0.970 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96A-350cs | DIMETHICONE | 350 | 0.970 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96A-500cs | DIMETHICONE | 500 | 0.970 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96-1,000cs | DIMETHICONE | 1,000 | 0.970 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96-3,000cs | DIMETHICONE | 3,000 | 0.970 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96A-5,000cs | DIMETHICONE | 5,000 | 0.975 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96H-6,000cs | DIMETHICONE | 6,000 | 0.975 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96H-10,000cs | DIMETHICONE | 10,000 | 0.975 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96H-12,500cs | DIMETHICONE | 12,500 | 0.975 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96H-30,000cs | DIMETHICONE | 30,000 | 0.976 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96H-50,000cs | DIMETHICONE | 50,000 | 0.976 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96H-60,000cs | DIMETHICONE | 60,000 | 0.976 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96H-100,000cs | DIMETHICONE | 100,000 | 0.977 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96H-300,000cs | DIMETHICONE | 300,000 | 0.977 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96H-500,000cs | DIMETHICONE | 500,000 | 0.978 | 1.403 | < 0.5 | < -50 | > 315 | ● |
| KF-96H-1,000,000cs | DIMETHICONE | 1,000,000 | 0.978 | 1.403 | < 0.5 | < -50 | > 315 | ● |

* The commercial name in US is DM-FLUID-xxx, outside of US is KF-96-xxx.

(Not specified values)

*1: 105°C x 3 h

2 Volatile Silicone Fluids

| Parameter Grade | INCI | Viscosity 25°C mm ² /s | Specific Gravity 25°C | Refractive Index 25°C | Freezing Point °C | Boiling Point °C | Flash Point °C | Surface Tension 25°C, mN/m | Chinese INCI |
|--------------------|---------------------|---|-----------------------------|-----------------------------|-------------------------|------------------------|----------------------|----------------------------------|-----------------|
| KF-995 | CYCLOPENTASILOXANE | 4.0 | 0.956 | 1.396 | -40 | 210 | 77 | 17.8 | ● |
| TMF-1.5 | METHYL TRIMETHICONE | 1.5 | 0.847 | 1.386 | -83 | 191 | 60 | 16.8 | ● |
| KF-4422 | ETHYL METHICONE | 2.2 | 0.863 | 1.400 | < -100 | 227 | 82 | 19.1 | |

* See page 3 for volatile dimethyl silicone fluids.

(Not specified values)

3 Methyl Phenyl Silicone Fluids

| Parameter Grade | INCI | Viscosity 25°C mm ² /s | Specific Gravity 25°C | Refractive Index 25°C | Volatile Matter 150°C x 24 h % | Pour Point °C | Flash Point °C | Chinese INCI |
|----------------------|------------------------------------|---|-----------------------------|-----------------------------|--------------------------------------|------------------|-------------------|-----------------|
| KF-50-100cs | DIPHENYL DIMETHICONE | 100 | 0.995 | 1.427 | < 0.5 | < -65 | > 315 | ● |
| KF-50-1,000cs | DIPHENYL DIMETHICONE | 1,000 | 1.000 | 1.427 | < 0.5 | < -65 | > 315 | ● |
| KF-53 | DIPHENYL DIMETHICONE | 175 | 1.055 | 1.485 | < 0.3 | < -30 | > 300 | ● |
| KF-54 | DIPHENYL DIMETHICONE | 400 | 1.070 | 1.505 | < 0.5 | < -30 | > 300 | ● |
| KF-56A | DIPHENYLSILOXY PHENYL TRIMETHICONE | 15 | 0.995 | 1.498 | 15* | < -55 | > 100 | ● |
| KF-54HV | DIPHENYL DIMETHICONE | 5,000 | 1.080 | 1.503 | < 0.5 | < -30 | > 315 | ● |

* 105°C x 3 h

(Not specified values)

4 Alkyl Modified Silicone Fluid

| Parameter Grade | INCI | Viscosity 25°C mm ² /s | Specific Gravity 25°C | Refractive Index 25°C | Volatile Matter 150°C x 24 h % | Pour Point °C | Flash Point °C | Chinese INCI |
|--------------------|--------------------|---|-----------------------------|-----------------------------|--------------------------------------|------------------|-------------------|-----------------|
| KF-4418 | CAPRYLYL METHICONE | 2.9 | 0.836 | 1.413 | 10 | < -100 | 94 | ● |

(Not specified values)

5 Amino Modified Silicone Fluids

| Parameter Grade | INCI | Viscosity 25°C, mm ² /s | Specific Gravity 25°C | Refractive Index 25°C | Chinese INCI |
|--------------------|-----------------------------------|---------------------------------------|--------------------------|--------------------------|-----------------|
| KF-8004 | AMODIMETHICONE | 800 | 0.980 | 1.408 | ● |
| KF-8005S | AMINOETHYLAMINOPROPYL DIMETHICONE | 1,600 | 0.973 | 1.404 | ● |
| KF-8015 | AMINOPROPYL DIMETHICONE | 50,000-100,000 | 0.975 | 1.405 | ● |
| KF-867S | AMODIMETHICONE | 1,300 | 0.980 | 1.407 | ● |

(Not specified values)

6 Fluid Compounds

| Parameter Grade | INCI | Appearance | Viscosity 25°C, mPa·s | Specific Gravity 25°C | Chinese INCI |
|--------------------|-------------|-------------------------------|--------------------------|--------------------------|-----------------|
| KS-66 | SIMETHICONE | Light gray translucent liquid | 300 | 1.01 | ● |
| KS-69 | SIMETHICONE | Light gray translucent paste | 2,500 | 1.01 | ● |

(Not specified values)

7 Dimethyl Silicone Fluid Blends

| Parameter Grade | INCI | Component A | Viscosity 25°C mPa·s | Specific Gravity 25°C | Refractive Index 25°C | Dimethicone Gum Content, % | Solvent | Chinese INCI |
|--------------------|--------------------|-------------|----------------------------|-----------------------------|-----------------------------|----------------------------------|-------------|-----------------|
| | | Component B | | | | | | |
| KF-9008 | DIMETHICONE | | 30,000 | 0.961 | 1.397 | 20 | KF-995 | ● |
| | CYCLOPENTASILOXANE | | | | | | | |
| KF-9011 | DIMETHICONE | | 1,600 | 0.959 | 1.397 | 10 | KF-995 | ● |
| | CYCLOPENTASILOXANE | | | | | | | |
| KF-9013 | DIMETHICONE | | 15,000 | 0.954 | 1.401 | 15 | KF-96A-20cs | ● |
| | DIMETHICONE | | | | | | | |
| KF-9014 | DIMETHICONE | | 6,000 | 0.960 | 1.397 | 15 | KF-995 | ● |
| | CYCLOPENTASILOXANE | | | | | | | |
| MK-15H | DIMETHICONE | | 45,000 | 0.958 | 1.402 | 20 | KF-96A-20cs | ● |
| | DIMETHICONE | | | | | | | |
| X-21-5495 | DIMETHICONE | | 3,000 | 0.961 | 1.397 | 15 | KF-995 | ● |
| | CYCLOPENTASILOXANE | | | | | | | |
| KF-9028 | DIMETHICONE | | 3,000 | 0.965 | 1.398 | 20 | KF-995 | ● |
| | CYCLOPENTASILOXANE | | | | | | | |
| KF-9030 | DIMETHICONE | | 5,000 | 0.955 | 1.401 | 20 | KF-96A-20cs | ● |
| | DIMETHICONE | | | | | | | |
| KF-9039 | DIMETHICONE | | 3,000 | 0.800 | 1.413 | 30 | ISODODECANE | ● |
| | ISODODECANE | | | | | | | |
| KF-9043 | DIMETHICONE | | 14,000 | 0.800 | 1.414 | 30 | ISODODECANE | ● |
| | ISODODECANE | | | | | | | |

(Not specified values)

8 High Polymerization Dimethiconols

| Parameter Grade | INCI | Component A | Viscosity 25°C mPa·s | Specific Gravity 25°C | Refractive Index 25°C | Dimethiconol Content % | Solvent | Chinese INCI |
|--------------------|--------------------|-------------|----------------------------|-----------------------------|-----------------------------|------------------------------|-------------|-----------------|
| | | Component B | | | | | | |
| X-21-5613* | DIMETHICONOL | | 5,000 | 0.957 | 1.401 | 20 | KF-96A-20cs | ● |
| | DIMETHICONE | | | | | | | |
| X-21-5666* | DIMETHICONOL | | 15,000 | 0.960 | 1.398 | 30 | KF-995 | ● |
| | CYCLOPENTASILOXANE | | | | | | | |
| X-21-5847 | DIMETHICONOL | | 22,000 | 0.975 | 1.404 | 100 | — | ● |
| X-21-5849 | DIMETHICONOL | | 100,000 | 0.977 | 1.403 | 100 | — | ● |

* Blended product

(Not specified values)

9 Amino Gum Blends

| Parameter Grade | INCI | Component A | Viscosity 25°C mm ² /s | Specific Gravity 25°C | Refractive Index 25°C | Amino Gum Content % | Solvent | Chinese INCI |
|--------------------|-------------------------|-------------|---|-----------------------------|-----------------------------|---------------------------|-------------|-----------------|
| | | Component B | | | | | | |
| KF-8017 | AMINOPROPYL DIMETHICONE | | 2,000 | 0.956 | 1.401 | 10 | KF-96A-20cs | ● |
| | DIMETHICONE | | | | | | | |
| KF-8018 | AMINOPROPYL DIMETHICONE | | 2,000 | 0.961 | 1.397 | 10 | KF-995 | ● |
| | CYCLOPENTASILOXANE | | | | | | | |
| KF-8020 | AMINOPROPYL DIMETHICONE | | 40,000 | 0.956 | 1.401 | 20 | KF-96A-20cs | ● |
| | DIMETHICONE | | | | | | | |

(Not specified values)

10 Silicone Emulsions

| Parameter Grade | INCI | Composition % | Appearance | Viscosity 25°C mPa·s | Main Silicone Component | Silicone Solvent | Silicone Content % | PH 25°C | Ionic Character | Chinese INCI |
|--------------------|--|------------------|----------------------|----------------------------|-------------------------------|---------------------|--------------------------|------------|--------------------|-----------------|
| KM-902 | Component A : DIMETHICONE | 50.0 | Milky white emulsion | 100 | KF-96H-500,000cs | — | 50 | 3.0 | Nonionic | ● |
| | Others | 6.15 | | | | | | | | |
| KM-903 | Component A : DIMETHICONE | 18.0 | Milky white emulsion | 1,000 | Dimethicone gum | KF-96A-200cs | 60 | 3.0 | Nonionic | ● |
| | Component B : DIMETHICONE | 42.0 | | | | | | | | |
| | Others | 6.25 | | | | | | | | |
| KM-910 | Component A : DIMETHICONE | 36.0 | Milky white emulsion | 3,000 | Dimethicone gum | KF-96A-200cs | 60 | 5.0 | Nonionic | ● |
| | Component B : DIMETHICONE | 24.0 | | | | | | | | |
| | Others | 6.75 | | | | | | | | |
| X-52-2127 | Component A : DIMETHICONE | 30.0 | Milky white emulsion | 6,000 | Dimethicone gum | KF-96A-200cs | 75 | 7.0 | Cationic | ● |
| | Component B : DIMETHICONE | 45.0 | | | | | | | | |
| | Others | 4.5 | | | | | | | | |
| X-52-2162 | Component A : DIMETHICONE | 26.0 | Milky white emulsion | 3,000 | Dimethicone gum | KF-96A-200cs | 65 | 3.5 | Nonionic | ● |
| | Component B : DIMETHICONE | 39.0 | | | | | | | | |
| | Others | 5.25 | | | | | | | | |
| X-52-2265 | Component A : AMODIMETHICONE | 40.0 | Milky white emulsion | — | Amino modified silicone | — | 40 | 8.0 | Nonionic | ● |
| | Others | 10.1 | | | | | | | | |
| X-52-2328 | Component A : AMINOPROPYL DIMETHICONE | 12.0 | Milky white emulsion | 2,500 | Amino modified gum | KF-96A-20cs | 60 | 7.0 | Nonionic | ● |
| | Component B : DIMETHICONE | 48.0 | | | | | | | | |
| | Others | 9.5 | | | | | | | | |
| KM-116 | Component A : DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER | 15.0-22.5 | Milky white emulsion | 10,000 | Silicone cross-polymer | KF-96A-6cs | 75 | 7.0 | Nonionic | ● |
| | Component B : DIMETHICONE | 52.5-60.0 | | | | | | | | |
| | Others | 7.2 | | | | | | | | |

(Not specified values)

11 Polyether Modified Silicone Fluids

| Parameter Grade | INCI | Viscosity 25°C mm ² /s | Specific Gravity 25°C | Refractive Index 25°C | Calculated HLB wt%, EO/5 | Cloud Point °C | Chinese INCI |
|--------------------|--|---|-----------------------------|-----------------------------|--------------------------------|-------------------|-----------------|
| KF-6011 | PEG-11 METHYL ETHER DIMETHICONE | 130 | 1.068 | 1.450 | 14.5 | 65 | ● |
| KF-6011P | PEG-11 METHYL ETHER DIMETHICONE | 140 | 1.062 | 1.450 | 14.5 | 65 | ● |
| KF-6012 | PEG/PPG-20/22 BUTYL ETHER DIMETHICONE | 1,600 | 1.030 | 1.446 | 7.0 | 35 | ● |
| KF-6015 | PEG-3 DIMETHICONE | 150 | 1.000 | 1.420 | 4.5 | — | ● |
| KF-6017 | PEG-10 DIMETHICONE | 600 | 1.007 | 1.420 | 4.5 | — | ● |
| KF-6017P | PEG-10 DIMETHICONE | 850 | 1.004 | 1.420 | 4.5 | — | ● |
| KF-6004 | PEG-32 METHYL ETHER DIMETHICONE | Solid (melting point 45°C) | — | — | 9.0 | — | ● |
| KF-6028 | PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE | 900 | 0.998 | 1.420 | 4.0 | — | ● |
| KF-6028P | PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE | 900 | 0.997 | 1.420 | 4.0 | — | ● |
| KF-6038 | LAURYL PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE | 700 | 0.958 | 1.430 | 3.0 | — | ● |
| KF-6043 | PEG-10 DIMETHICONE | 400 | 1.082 | 1.454 | 14.5 | 71 | ● |
| KF-6048 | CETYL PEG/PPG-10/1 DIMETHICONE | 2,700 | 0.963 | 1.437 | 3.5 | — | ● |

* P Grade: odorless versions created using an improved deodorization process.

(Not specified values)

12 Polyglycerin Modified Silicone Fluids

| Parameter Grade | INCI | Viscosity 25°C mPa·s | Specific Gravity 25°C | Refractive Index 25°C | Estimated HLB | Chinese INCI |
|--------------------|---|----------------------------|-----------------------------|-----------------------------|------------------|-----------------|
| KF-6104 | POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE | 4,000 | 0.976 | 1.409 | Low | ● |
| KF-6105 | LAURYL POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE | 4,000 | 0.950 | 1.426 | Low | ● |
| KF-6106 | POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE | 3,500 | 0.982 | 1.412 | Low | ● |
| KF-6115 | LAURYL POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE | 1,000 | 0.945 | 1.431 | Low | ● |
| KF-6180 | ISOSTEARYL POLYGLYCERYL-3 DIMETHICONE | 8,000 | 0.950 | 1.443 | Low | |

(Not specified values)

13 Silicone Gels

| Parameter Grade | INCI | Component A | Appearance | Penetration (worked) 25°C | Refractive Index 25°C | Base Oil | Cross-linked Polymer % | Chinese INCI |
|--------------------|--|-------------|---------------------------------|---------------------------------|-----------------------------|----------------------------|------------------------------|-----------------|
| | | Component B | | | | | | |
| KSG-15 | DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER | | Colorless, transparent paste | 420 | 1.397 | KF-995 | 4-10 | ● |
| | CYCLOPENTASILOXANE | | | | | | | |
| KSG-1510 | DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER | | Colorless, translucent paste | 420 | 1.389 | TMF-1.5 | 5-10 | ● |
| | METHYL TRIMETHICONE | | | | | | | |
| USG-103 | DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER | | Colorless, transparent paste | 350 | 1.398 | KF-995 | 8-12 | ● |
| | CYCLOPENTASILOXANE | | | | | | | |
| KSG-16 | DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER | | Colorless, translucent paste | 330 | 1.400 | KF-96A-6cs | 20-30 | ● |
| | DIMETHICONE | | | | | | | |
| KSG-1610 | DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER | | Colorless, translucent paste | 380 | 1.389 | TMF-1.5 | 15-20 | ● |
| | METHYL TRIMETHICONE | | | | | | | |
| USG-106 | DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER | | Colorless, transparent paste | 420 | 1.418 | ISODODECANE | 8-12 | ● |
| | ISODODECANE | | | | | | | |
| KSG-18A | DIMETHICONE/PHENYL VINYL DIMETHICONE CROSSPOLYMER | | Colorless, translucent paste | 330 | 1.495 | KF-56A | 10-20 | ● |
| | DIPHENYLSILOXY PHENYL TRIMETHICONE | | | | | | | |
| KSG-19 | DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER | | Colorless, translucent paste | 360 | 1.399 | KF-96A-6cs | 10-20 | ● |
| | DIMETHICONE | | | | | | | |
| KSG-016F | DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER | | Colorless, translucent paste | 350 | 1.398 | KF-96A-6cs | 20-30 | ● |
| | DIMETHICONE | | | | | | | |
| KSG-41A | VINYL DIMETHICONE/LAURYL DIMETHICONE CROSSPOLYMER | | Colorless, translucent paste | 400 | 1.455 | MINERAL OIL | 20-30 | ● |
| | MINERAL OIL | | | | | | | |
| KSG-42A | VINYL DIMETHICONE/LAURYL DIMETHICONE CROSSPOLYMER | | Colorless, translucent paste | 400 | 1.421 | ISODODECANE | 15-25 | ● |
| | ISODODECANE | | | | | | | |
| KSG-43 | VINYL DIMETHICONE/LAURYL DIMETHICONE CROSSPOLYMER | | Colorless, translucent paste | 400 | 1.442 | TRIETHYLHEXANOIN | 25-35 | ● |
| | TRIETHYLHEXANOIN | | | | | | | |
| KSG-44 | VINYL DIMETHICONE/LAURYL DIMETHICONE CROSSPOLYMER | | Colorless, translucent paste | 380 | 1.447 | SQUALANE | 25-35 | ● |
| | SQUALANE | | | | | | | |
| KSG-45 | VINYL DIMETHICONE/LAURYL DIMETHICONE CROSSPOLYMER | | Colorless, translucent paste | 330 | 1.430 | COCO-CAPRYLATE/ CAPRATE | 30-40 | ● |
| | COCO-CAPRYLATE/CAPRATE | | | | | | | |
| KSG-042Z | LAURYL POLYDIMETHYLSILOXYETHYL DIMETHICONE/ BIS-VINYLDIMETHICONE CROSSPOLYMER | | Colorless, transparent paste | 330 | 1.418 | ISODODECANE | 15-25 | |
| | ISODODECANE | | | | | | | |
| KSG-045Z | LAURYL POLYDIMETHYLSILOXYETHYL DIMETHICONE/ BIS-VINYLDIMETHICONE CROSSPOLYMER | | Colorless, hazy paste | 350 | 1.401 | KF-995 | 15-25 | |
| | CYCLOPENTASILOXANE | | | | | | | |
| KSG-048Z | LAURYL POLYDIMETHYLSILOXYETHYL DIMETHICONE/ BIS-VINYLDIMETHICONE CROSSPOLYMER | | Colorless, translucent paste | 370 | 1.397 | KF-96L-2cs | 15-25 | |
| | DIMETHICONE | | | | | | | |
| KSG-210 | DIMETHICONE/PEG-10/15 CROSSPOLYMER | | Colorless, milky white paste | 400 | 1.403 | KF-96A-6cs | 20-30 | ● |
| | DIMETHICONE | | | | | | | |
| KSG-240 | DIMETHICONE/PEG-10/15 CROSSPOLYMER | | Colorless, milky white paste | 400 | 1.400 | KF-995 | 15-25 | ● |
| | CYCLOPENTASILOXANE | | | | | | | |
| KSG-270 | DIMETHICONE/PEG-10/15 CROSSPOLYMER | | Colorless, milky white paste | 350 | 1.483 | KF-56A | 15-25 | ● |
| | DIPHENYLSILOXY PHENYL TRIMETHICONE | | | | | | | |

(Not specified values)

Silicone Gels

| Grade | Parameter | INCI | Component A | | Appearance | Penetration (worked) 25°C | Refractive Index 25°C | Base Oil | Cross-linked Polymer % | Chinese INCI |
|----------|-----------|--|-------------|-------------|------------------------------|---------------------------|-----------------------|------------------|------------------------|--------------|
| | | | Component A | Component B | | | | | | |
| KSG-310 | | PEG-15/LAURYL DIMETHICONE CROSSPOLYMER | | | Colorless, milky white paste | 400 | 1.450 | MINERAL OIL | 25-35 | ● |
| | | MINERAL OIL | | | | | | | | |
| KSG-320 | | PEG-15/LAURYL DIMETHICONE CROSSPOLYMER | | | Colorless, milky white paste | 400 | 1.420 | ISODODECANE | 20-30 | ● |
| | | ISODODECANE | | | | | | | | |
| KSG-330 | | PEG-15/LAURYL DIMETHICONE CROSSPOLYMER | | | Colorless, milky white paste | 395 | 1.442 | TRIETHYLHEXANOIN | 15-25 | ● |
| | | TRIETHYLHEXANOIN | | | | | | | | |
| KSG-340 | | PEG-10/LAURYL DIMETHICONE CROSSPOLYMER | | | Colorless, milky white paste | 430 | 1.445 | SQUALANE | 25-35 | |
| | | PEG-15/LAURYL DIMETHICONE CROSSPOLYMER | | | | | | | | |
| | | SQUALANE | | | | | | | | |
| KSG-320Z | | PEG-15/LAURYL POLYDIMETHYLSILOXYETHYL DIMETHICONE CROSSPOLYMER | | | Colorless, milky white paste | 360 | 1.420 | ISODODECANE | 20-30 | |
| | | ISODODECANE | | | | | | | | |
| KSG-350Z | | PEG-15/LAURYL POLYDIMETHYLSILOXYETHYL DIMETHICONE CROSSPOLYMER | | | Colorless, milky white paste | 370 | 1.404 | KF-995 | 20-30 | |
| | | CYCLOPENTASILOXANE | | | | | | | | |
| KSG-360Z | | PEG-15/LAURYL POLYDIMETHYLSILOXYETHYL DIMETHICONE CROSSPOLYMER | | | Colorless, milky white paste | 410 | 1.408 | KF-96A-6cs | 30-40 | |
| | | DIMETHICONE | | | | | | | | |
| KSG-380Z | | PEG-15/LAURYL POLYDIMETHYLSILOXYETHYL DIMETHICONE CROSSPOLYMER | | | Colorless, translucent paste | 380 | 1.400 | KF-96L-2cs | 25-35 | |
| | | DIMETHICONE | | | | | | | | |
| KSG-710 | | DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER | | | Colorless, milky white paste | 400 | 1.400 | KF-96A-6cs | 20-30 | ● |
| | | DIMETHICONE | | | | | | | | |
| KSG-790 | | DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER | | | Colorless, milky white paste | 360 | 1.413 | KF-4418 | 25-35 | ● |
| | | CAPRYLYL METHICONE | | | | | | | | |
| KSG-810 | | LAURYL DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER | | | Colorless, milky white paste | 380 | 1.450 | MINERAL OIL | 25-35 | ● |
| | | MINERAL OIL | | | | | | | | |
| KSG-820 | | LAURYL DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER | | | Colorless, milky white paste | 340 | 1.420 | ISODODECANE | 20-30 | ● |
| | | ISODODECANE | | | | | | | | |
| KSG-830 | | LAURYL DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER | | | Colorless, milky white paste | 380 | 1.442 | TRIETHYLHEXANOIN | 15-25 | ● |
| | | TRIETHYLHEXANOIN | | | | | | | | |
| KSG-840 | | LAURYL DIMETHICONE/POLYGLYCERIN-3 CROSSPOLYMER | | | Colorless, milky white paste | 380 | 1.445 | SQUALANE | 25-35 | ● |
| | | SQUALANE | | | | | | | | |
| KSG-820Z | | POLYGLYCERYL-3/LAURYL POLYDIMETHYLSILOXYETHYL DIMETHICONE CROSSPOLYMER | | | Colorless, milky white paste | 360 | 1.420 | ISODODECANE | 20-30 | |
| | | ISODODECANE | | | | | | | | |
| KSG-850Z | | POLYGLYCERYL-3/LAURYL POLYDIMETHYLSILOXYETHYL DIMETHICONE CROSSPOLYMER | | | Colorless, milky white paste | 360 | 1.404 | KF-995 | 20-30 | |
| | | CYCLOPENTASILOXANE | | | | | | | | |

(Not specified values)

14 Silicone Acrylates

| Parameter Grade | INCI | Component A Component B | Viscosity 25°C mm ² /s | Content % | Solvent | Chinese INCI |
|--------------------|--|----------------------------|---|--------------|-------------------|-----------------|
| KP-541 | ACRYLATES/DIMETHICONE COPOLYMER | ISOPROPYL ALCOHOL | 500-10,000 mPa·s | 60 | ISOPROPYL ALCOHOL | ● |
| | ISOPROPYL ALCOHOL | | | | | |
| KP-543 | ACRYLATES/DIMETHICONE COPOLYMER | BUTYL ACETATE | 100-1,000 | 50 | BUTYL ACETATE | ● |
| | BUTYL ACETATE | | | | | |
| KP-545 | ACRYLATES/DIMETHICONE COPOLYMER | CYCLOPENTASILOXANE | 100-500 | 30 | KF-995 | ● |
| | CYCLOPENTASILOXANE | | | | | |
| KP-549 | ACRYLATES/DIMETHICONE COPOLYMER | METHYL TRIMETHICONE | 500-5,000 | 40 | TMF-1.5 | ● |
| | METHYL TRIMETHICONE | | | | | |
| KP-550 | ACRYLATES/DIMETHICONE COPOLYMER | ISODODECANE | 100-3,000 | 40 | ISODODECANE | ● |
| | ISODODECANE | | | | | |
| KP-545L | ACRYLATES/DIMETHICONE COPOLYMER | DIMETHICONE | 800-8,000 | 40 | KF-96L-2cs | ● |
| | DIMETHICONE | | | | | |
| KP-578 | ACRYLATES/ETHYLHEXYL ACRYLATE/ DIMETHICONE METHACRYLATE COPOLYMER | | 150-200 | 100 | — | ● |
| KP-561P | ACRYLATES/STEARYL ACRYLATE/ DIMETHICONE METHACRYLATE COPOLYMER | | Solid (melting point 25-35°C) | 100 | — | ● |

(Not specified values)

15 Trimethylsiloxysilicates

| Parameter Grade | INCI | Component A | Viscosity 25°C mm ² /s | Specific Gravity 25°C | Refractive Index 25°C | Resin Content % | Solvent | Film Hardness | Chinese INCI |
|--------------------|-------------------------|-------------|---|-----------------------------|-----------------------------|-----------------------|-------------|------------------|-----------------|
| | | Component B | | | | | | | |
| X-21-5250 | TRIMETHYLSILOXYSILICATE | | 60 | 1.034 | 1.404 | 50 | KF-995 | Soft | ● |
| | CYCLOPENTASILOXANE | | | | | | | | |
| X-21-5616 | TRIMETHYLSILOXYSILICATE | | 10 | 0.916 | 1.412 | 60 | ISODODECANE | Soft | ● |
| | ISODODECANE | | | | | | | | |
| X-21-5249 | TRIMETHYLSILOXYSILICATE | | 60 | 1.036 | 1.404 | 50 | KF-995 | Medium | ● |
| | CYCLOPENTASILOXANE | | | | | | | | |
| KF-7312J | TRIMETHYLSILOXYSILICATE | | 120 | 1.050 | 1.405 | 50 | KF-995 | Hard | ● |
| | CYCLOPENTASILOXANE | | | | | | | | |
| KF-7312K | TRIMETHYLSILOXYSILICATE | | 5,000 | 1.070 | 1.410 | 60 | KF-96A-6cs | Hard | ● |
| | DIMETHICONE | | | | | | | | |
| KF-7312L | TRIMETHYLSILOXYSILICATE | | 120 | 1.000 | 1.401 | 50 | KF-96L-2cs | Hard | ● |
| | DIMETHICONE | | | | | | | | |
| KF-7312T | TRIMETHYLSILOXYSILICATE | | 50 | 1.009 | 1.401 | 60 | TMF-1.5 | Hard | ● |
| | METHYL TRIMETHICONE | | | | | | | | |
| X-21-5595 | TRIMETHYLSILOXYSILICATE | | 30 | 0.967 | 1.416 | 60 | ISODODECANE | Hard | ● |
| | ISODODECANE | | | | | | | | |
| KF-9021 | TRIMETHYLSILOXYSILICATE | | 2,000 | 1.070 | 1.406 | 50 | KF-995 | Very hard | ● |
| | CYCLOPENTASILOXANE | | | | | | | | |
| KF-9021-ID | TRIMETHYLSILOXYSILICATE | | 20 | 0.922 | 1.419 | 50 | ISODODECANE | Very hard | ● |
| | ISODODECANE | | | | | | | | |

(Not specified values)

16 Silicone Film Formers

| Parameter Grade | INCI | Component A | Viscosity 25°C | Content % | Solvent | Chinese INCI |
|--------------------|---|-------------|--------------------------|--------------|-------------|-----------------|
| | | Component B | | | | |
| NBN-30-ID | NORBORNENE/TRIS (TRIMETHYLSILOXY) SilylnORBORNENE COPOLYMER | | 300 Pa·s | 30 | ISODODECANE | |
| | ISODODECANE | | | | | |
| TSPL-30-ID | TRIMETHYLSILOXYSILYL CARBAMOYL PULLULAN | | 600 mm ² /s | 30 | ISODODECANE | ● |
| | ISODODECANE | | | | | |
| TSPL-30-D5 | TRIMETHYLSILOXYSILYL CARBAMOYL PULLULAN | | 8,000 mm ² /s | 30 | KF-995 | ● |
| | CYCLOPENTASILOXANE | | | | | |

(Not specified values)

17 Silicone Powders

| Parameter Grade | INCI | Appearance | Modified Type | True Specific Gravity | Average Particle Size μm | Hardness Durometer A | Chinese INCI |
|--------------------|---|-------------------------|---------------|-----------------------|-------------------------------------|----------------------|--------------|
| KMP-590 | POLYMETHYLSILSESQUIOXANE | White, spherical powder | — | 1.32 | 2 | — | ● |
| KMP-591 | POLYMETHYLSILSESQUIOXANE | White, spherical powder | — | 1.32 | 5 | — | ● |
| KMP-592 | METHYL/PHENYL POLYSILSESQUIOXANE | White, spherical powder | Phenyl | 1.32 | 2 | — | |
| KMP-598 | DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER | White, spherical powder | — | 0.97 | 13 | 30 | ● |
| KSP-100 | VINYL DIMETHICONE/METHICONE SILSESQUIOXANE CROSSPOLYMER | White, spherical powder | — | 1.00 | 5 | 30 | ● |
| KSP-101 | VINYL DIMETHICONE/METHICONE SILSESQUIOXANE CROSSPOLYMER | White, spherical powder | — | 0.98 | 12 | 30 | ● |
| KSP-102 | VINYL DIMETHICONE/METHICONE SILSESQUIOXANE CROSSPOLYMER | White, spherical powder | — | 0.98 | 30 | 30 | ● |
| KSP-105 | VINYL DIMETHICONE/METHICONE SILSESQUIOXANE CROSSPOLYMER | White, spherical powder | — | 0.99 | 2 | 75 | ● |
| KSP-300 | DIPHENYL DIMETHICONE/VINYL DIPHENYL DIMETHICONE/SILSESQUIOXANE CROSSPOLYMER | White, spherical powder | Phenyl | 1.11 | 5 | 40 | ● |
| KSP-411 | POLYSILICONE-1 CROSSPOLYMER | White, spherical powder | — | 0.99 | 12 | 22 | |
| KSP-441 | POLYSILICONE-22 | White, spherical powder | Alkyl | 0.92 | 12 | — | |

(Not specified values)

18 Silicone Powder (Hydrophilized Type)

| Parameter Grade | INCI | Appearance | Modified Type | Surface Treatment | True Specific Gravity | Average Particle Size μm | Rubber Hardness Durometer A | Chinese INCI |
|--------------------|---|-------------------------|---------------|-------------------|-----------------------|-------------------------------------|-----------------------------|--------------|
| KSP-100W | VINYL DIMETHICONE/METHICONE SILSESQUIOXANE CROSSPOLYMER | White, spherical powder | — | Hydrophilized | 1.00 | 5 | 30 | ● |
| | PEG-7 GLYCERYL COCOATE | | | | | | | |
| | POLYQUATERNIUM-7 | | | | | | | |
| | METHYLSILANOL TRI-PEG-8 GLYCERYL COCOATE | | | | | | | |

(Not specified values)

19 Silicone Powder Water-Suspensions

| Parameter Grade | INCI | Composition % | Modified Type | Average Particle Size μm | Rubber Hardness | pH 25°C | Ionic Character | Chinese INCI |
|--------------------|---|---------------|---------------|-------------------------------------|-----------------|---------|-----------------|--------------|
| KM-440 | Component A : VINYL DIMETHICONE/LAURYL DIMETHICONE CROSSPOLYMER | 60.0 | Alkyl | 5 | — | 6.0 | Nonionic | ● |
| | Others | 2.30 | — | — | — | | | |
| KM-9729 | Component A : DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER | 50.0 | — | 2 | 75 | 5.0 | Nonionic | ● |
| | Others | 2.75 | — | — | — | | | |

(Not specified values)

20 Powder Treatments

| Parameter Grade | INCI | Viscosity 25°C, mm^2/s | Specific Gravity 25°C | Refractive Index 25°C | Volatile Content 105°C x 3h, % | Chinese INCI |
|--------------------|--|--|-----------------------|-----------------------|--------------------------------|--------------|
| KF-99-P | METHICONE | 20 | 0.999 | 1.396 | < 5 | ● |
| KF-9901 | HYDROGEN DIMETHICONE | 20 | 0.971 | 1.398 | < 5 | ● |
| KF-9908 | TRIETHOXYSIYLETHYL POLYDIMETHYLSILOXYETHYL DIMETHICONE | 60 | 0.962 | 1.412 | < 5 | ● |
| KF-9909 | TRIETHOXYSIYLETHYL POLYDIMETHYLSILOXYETHYL HEXYL DIMETHICONE | 45 | 0.962 | 1.415 | < 5 | ● |
| AES-3083 | TRIETHOXYCAPRYLYLSILANE | 2 | 0.875 | 1.417 | Boiling point 100°C/2 mmHg | ● |

(Not specified values)

21 Surface Treated Color Pigments

| Parameter Grade | INCI | Appearance | Loss on Drying 105°C x 3h % | Water Repellency | Chinese INCI |
|--------------------|---|------------------|-----------------------------------|---------------------|-----------------|
| KTP-09R | IRON OXIDES (C.I. 77491) | Red powder | < 1.0 | Yes | ● |
| | TRIETHOXYSILYLETHYL POLYDIMETHYLSILOXYETHYL HEXYL DIMETHICONE | | | | |
| KTP-09Y | IRON OXIDES (C.I. 77492) | Yellow powder | < 1.0 | Yes | ● |
| | TRIETHOXYSILYLETHYL POLYDIMETHYLSILOXYETHYL HEXYL DIMETHICONE | | | | |
| KTP-09B | IRON OXIDES (C.I. 77499) | Black powder | < 1.0 | Yes | ● |
| | TRIETHOXYSILYLETHYL POLYDIMETHYLSILOXYETHYL HEXYL DIMETHICONE | | | | |
| KTP-09W | TITANIUM DIOXIDE (C.I. 77891) | White powder | < 1.0 | Yes | ● |
| | ALUMINUM HYDROXIDE | | | | |
| | TRIETHOXYSILYLETHYL POLYDIMETHYLSILOXYETHYLHEXYL DIMETHICONE | | | | |

(Not specified values)

22 Powder Dispersions

| Parameter Grade | INCI | Powder | Solvent | Powder Content wt% | Appearance | Viscosity 25°C mPa·s | Specific Gravity 25°C | Chinese INCI |
|--------------------|--|------------------|------------|--------------------------|-----------------------------|----------------------------|-----------------------------|-----------------|
| SPD-T5 | CYCLOPENTASILOXANE | TiO ₂ | KF-995 | 40 | White-light gray fluid | < 4,000 | 1.3 | ● |
| | TITANIUM DIOXIDE | | | | | | | |
| | POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE | | | | | | | |
| | ALUMINUM HYDROXIDE | | | | | | | |
| | STEARIC ACID | | | | | | | |
| SPD-T5L | DIMETHICONE | TiO ₂ | KF-96L-2cs | 40 | White-light gray fluid | < 4,000 | 1.2 | ● |
| | TITANIUM DIOXIDE | | | | | | | |
| | POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE | | | | | | | |
| | ALUMINUM HYDROXIDE | | | | | | | |
| | STEARIC ACID | | | | | | | |
| SPD-T7 | CYCLOPENTASILOXANE | TiO ₂ | KF-995 | 45 | White-light gray fluid | < 4,000 | 1.4 | ● |
| | TITANIUM DIOXIDE | | | | | | | |
| | POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE | | | | | | | |
| | ALUMINUM HYDROXIDE | | | | | | | |
| | STEARIC ACID | | | | | | | |
| SPD-Z5 | ZINC OXIDE | ZnO | KF-995 | 60 | White-light yellow fluid | < 4,000 | 1.7 | ● |
| | CYCLOPENTASILOXANE | | | | | | | |
| | POLYGLYCERYL-3 POLYDIMETHYLSILOXYETHYL DIMETHICONE | | | | | | | |
| | TRIETHOXYSILYLETHYL POLYDIMETHYLSILOXYETHYL HEXYL DIMETHICONE | | | | | | | |

(Not specified values)

Solubility in Various Solvents Dimethyl Silicone Fluid

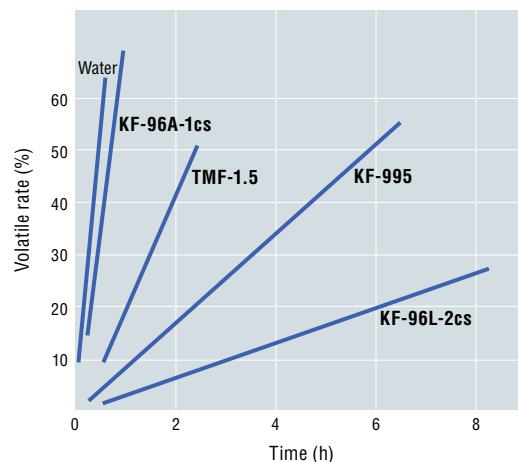
KF-96 (dimethyl silicone fluid) : Solubility of medium viscosity grades
 Note that low viscosity grades of KF-96 (5 mm²/s and below) also dissolve in ethanol and other solvents, so check prior to use.

| Solvent | Result |
|---|-------------------|
| Solvent naphtha | Soluble |
| Industrial Gasoline | Soluble |
| Mineral Spirits | Soluble |
| Kerosene | Soluble |
| Cyclohexane | Soluble |
| n-Hexane | Soluble |
| n-Heptane | Soluble |
| Ethyl Ether | Soluble |
| Diisopropyl Ether | Soluble |
| Hexyl Ether | Soluble |
| Ethyl Acetate | Soluble |
| Butyl Acetate | Soluble |
| Isopropyl Ether | Soluble |
| Isopropyl Laurate | Soluble |
| Isopropyl Palmitate | Soluble |
| Isopropyl Myristate | Soluble |
| Methyl Ethyl Ketone | Soluble |
| Methyl Isobutyl Ketone | Soluble |
| Lauryl Alcohol | Soluble |
| Acetone | Partially Soluble |
| Dioxane | Partially Soluble |
| Butanol | Partially Soluble |
| 2-Ethylhexanol | Partially Soluble |
| Amyl Acetate | Partially Soluble |
| Glacial Acetate Acid | Partially Soluble |
| Naphthene-based Lubricating Oils | Partially Soluble |
| Methanol | Insoluble |
| Ethanol* | Insoluble |
| Cyclohexanol | Insoluble |
| Ethylene Glycol | Insoluble |
| Carbitol | Insoluble |
| Glycerin | Insoluble |
| Diethylene Glycol Stearate | Insoluble |
| Propylene Glycol | Insoluble |
| Liquid Paraffin | Insoluble |
| Paraffin Wax | Insoluble |
| Petrolatums | Insoluble |
| Lubricating Oils | Insoluble |
| Fatty Acid (other than Glacial Acetic Acid) | Insoluble |
| Animal and Vegetable Oils | Insoluble |
| Methyl Phthalate | Insoluble |
| Water | Insoluble |

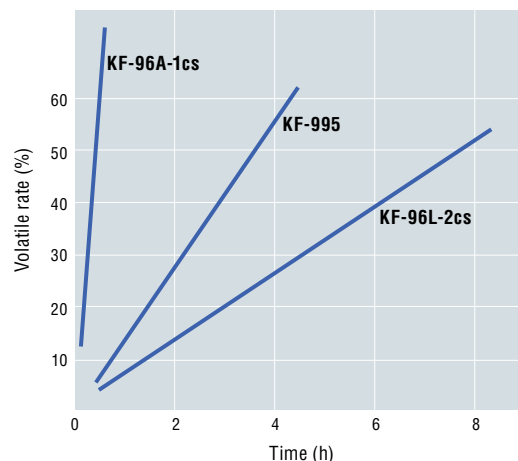
* Purity ca.95%

Volatile Data

■ Volatility at 25°C (measured by filter paper method)

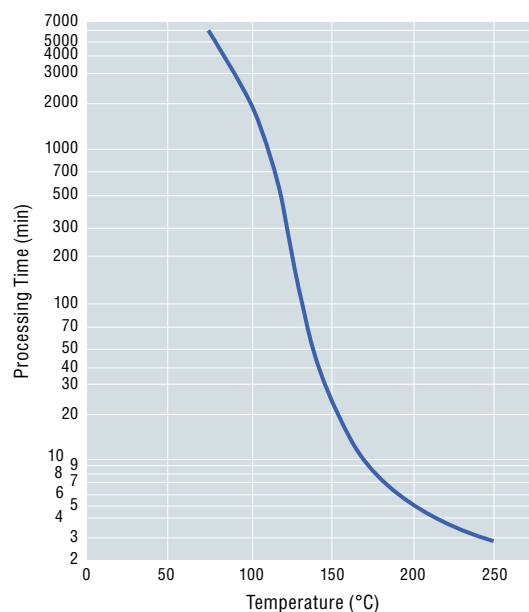


■ Volatility at 37°C (measured by filter paper method)



Bake-on Temperature and Processing Time Methyl Hydrogen Polysiloxane

(without solvent)



* Testing Condition
 Processing Liquid: 10% KF-99P Solution
 Testing Substrate: Glass

Solubility Dimethicone

KF-96L·KF-96

| Cosmetic Ingredient | Silicone Fluid : Cosmetic Ingredient | | | | | |
|---------------------|--------------------------------------|-------|---------|-------|---------|-------|
| | 10:1 | | 1:1 | | 1:10 | |
| | KF-96L* | KF-96 | KF-96L* | KF-96 | KF-96L* | KF-96 |
| Cetyl Alcohol | S | I | S | I | S | I |
| Bees Wax | I | I | I | I | S | I |
| Lanolin | I | I | I | I | I | I |
| Glycerine | I | I | I | I | I | I |
| Liquid Paraffin | S | I | S | I | S | I |
| Stearic Acid | P | I | I | I | I | I |
| Squalane | S | S | S | I | S | I |
| Jojoba Seed Oil | S | I | P | I | P | I |
| Petrolatum | I | I | I | I | S | I |

S: Soluble P: Soluble at 60 to 80°C I: Insoluble

* KF-96L: KF-96A (1 – 5)

Compatibility (20%) Polyether Modified Silicone Fluid, Polyglycerin Modified Silicone Fluid

| | KF-6011 6011P | KF-6012 | KF-6015 | KF-6017 6017P | KF-6028 6028P | KF-6038 | KF-6043 | KF-6048 | KF-6104 | KF-6105 | KF-6106 | KF-6115 | KF-6180 | KP-578 |
|---|------------------|---------|---------|------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| KF-96A-6cs (Dimethicone) | I | I | I | S | S | S | I | I | S | S | S | S | I | S |
| TMF-1.5 (Methyl Trimethicone) | I | I | S | S | S | S | I | S | S | S | S | S | S | S |
| KF-995 (Cyclopentasiloxane) | I | I | S | S | S | S | I | S | S | S | S | S | S | S |
| KF-56A (Diphenylsiloxy Phenyl Trimethicone) | S | S | S | S | S | S | I | S | S | S | S | S | S | S |
| Mineral Oil | I | I | I | I | I | S | I | S | I | S | I | S | S | I |
| Isotridecyl Isononanoate | I | S | S | I | I | S | I | S | S | S | S | S | S | S |
| Triethylhexanoin | S | S | S | S | S | S | S | S | I | S | I | S | S | S |
| Alcohol* | S | S | S | S | S | I | S | I | I | I | I | I | I | I |
| Butylene Glycol | S | I | I | I | I | I | S | I | I | I | I | I | I | I |
| Glycerin | I | I | I | I | I | I | I | I | I | I | I | I | I | I |
| Water | S | S | I | I | I | I | S | I | I | I | I | I | I | I |

S: Soluble I: Insoluble

* Purity ca.95%

Handling Precautions

Quality, Storage and Handling

- Since changes in quality may occur due to exposure to heat, humidity, light or acidic or alkaline environments, be sure to close tightly and store in a cool, dark location.
- Wear rubber gloves, safety glasses and other protective gear to prevent contact with the skin and mucous membranes. In case of eye contact, immediately flush eyes with plenty of running water, and consult a physician if necessary.
- Keep out of reach of children.
- Be sure to read the Safety Data Sheets (SDS) for these products before use.
SDS are available from the Shin-Etsu Silicone website. If the SDS is not listed on the website, please contact the sales department.
SDS download URL: <https://www.shinetsusilicone-global.com/support/sdstds>

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