



SILICONE AND SOLUTION FOR BEAUTY AND PERSONAL CARE

- Dimethicone Fluids
- Modified Silicone Fluids
- Gum Blends
- Silicone Resin
- Silicone Waxes
- Silicone Elastomer
- Silicone Emulsion

RUIJIANG Global Network



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About Ruisil

RUISIL is a technology-based chemical company, focusing on research and application of new silicone material and technology.

RUISIL concentrates on providing professional solutions, meeting customized demands, creating maximum value and growing together with our customers.

1999

Started in

>90%

Above Bachelor degree

>30

Technical R&D and testing staff



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Dimethicone Fluids

TRADE NAME	INCI NAME	Viscosity, cSt	Flash Point(C)	Features
RJS-201-5	Dimethicone	5±0.5	≥125	Good spreading property. Soft and silky sensory on skin. Non-tacky emollient.
RJS-201-10		10±1	≥165	
RJS-201-50		50±5	≥210	
RJS-201-100		100±5	≥310	
RJS-201-350		350±17.5	≥315	Good spreading property. Non-tacky emollient. Skin Lubricity & De-soaping.
RJS-201-1,000		1000±50	≥320	Skin protection. Spreads easily on both skin and hair. De-soaping (prevents foaming during rubbing).
RJS-201-12,500		12500±5%	≥330	
RJS-201-60,000~1,000,000		60,000~1,000,000±5%	≥330	Excellent hair conditioning agent. Reduce dry combing force of hair significantly. Soft and smooth performance.

Volatile Silicone Fluids

TRADE NAME	INCI NAME	Viscosity, cSt	Specific Gravity(25 C)	Features
RJS-201-0.65	Disiloxane	0.65±0.065	0.760~0.770	Excellent spreading. Very fast volatilization. Non-greasy.
RJS-201-1	Trisiloxane	1±0.1	0.815~0.825	
RJS-201-1.5	Dimethicone	1.5±0.15	0.845~0.855	Soft and silky feel. Excellent spreading performance.
RJS-201-2	Dimethicone	2±0.2	0.87~0.88	
RJS-5115	Cyclopentasiloxane	3.8~4.2	0.95~0.96	Soft and silky feel. Excellent spreading performance. Good compatibility with cosmetic ingredients.
RJS-5156	Cyclopentasiloxane (and) Cyclohexasiloxane	3~8	0.95~0.97	

Gum Blends

TRADE NAME	INCI NAME	Gum Content, %	Viscosity, cSt	Features
RJS-1203	Dimethicone (and) Dimethiconol	10~25	1,200~2,500	They are blends of ultra-high viscosity Dimethicone or Dimethiconol in low viscosity diluents. Generally provide soft, silky feeling, long-lasting conditioning and excellent spread of emollient. They are supported with tailor-made to suit your personalized formulation.
RJS-1205	Cyclopentasiloxane (and) Dimethicone	10~18	3,500~8,000	
RJS-1301	Dimethicone (and) Dimethiconol	10~20	3,000~5,000	
RJS-1305	Cyclopentasiloxane (and) Dimethiconol	10~18	4,000~8,000	
RJS-1345	Cyclopentasiloxane (and) Cyclotetrasiloxane (and) Dimethiconol	11~15	5,000~9,000	
RJS-1403	Dimethicone (and) Dimethiconol	12.5~16.5	930~2,260	



Phenyl Modified Silicones

TRADE NAME	INCI NAME	Viscosity, cSt	Refractive Index(25 °C)	Features
RJS-4351	Diphenyl Dimethicone	100~1,000	1.485~1.515	High gloss. It can improve spreading performance and boost SPF as well.
RJS-4356	Phenyl Trimethicone	15~30	1.455~1.465	
RJS-4353	Aminopropyl Phenyl Trimethicone	1,000~5,000	1.490~1.510	High gloss. It has excellent conditioning for hair and brings skin with long-lasting soft and silky feel.
RJS-4355	Trimethyl Pentaphenyl Trisiloxane	150~200	1.5765~1.5785	Super high gloss, with ability of film forming, giving soft feel and water and long lasting performance.

Amino-Functional Fluids

TRADE NAME	INCI NAME	Viscosity, cSt	Amine Value	Features
RJS-3101	Amodimethicone	4,000~8,000	<0.2	Damaged hair reparability. Hair suppleness improvement. Hair color protection.
RJS-3122	Bis-Aminopropyl Dimethicone	5,000~15,000	<0.1	Excellent dry and wet combing performance for hair due to the wash resistance ability. Great skin-friendly.
RJS-3108	Bisamino PEG/PPG-41/3 Aminoethyl PG-Propyl Dimethicone (and) Glycerin (and) Dipropylene Glycol	8,000	-	Superior conditioning and softening effect. Color protection. No yellowing to hair. In hair dye cream it can provide conditioning without affecting the dyeing effect.

Caprylyl Silicone Fluids

TRADE NAME	INCI NAME	Viscosity, cSt	Refractive Index(25 °C)	Features
RJS-4201	Caprylyl Methicone	2~5	1.41~1.43	Excellent compatibility with a wide range of organic ingredients. Enhance the dispersibility and spreadability of cosmetics. Easy to formulate.

Silicone Waxes

TRADE NAME	INCI NAME	Specific Gravity(25 °C)	Melting Point, °C	Features
RJS-2512S	Stearyl Dimethicone	0.85	38±2	Film-forming performance, thickening, moisturizing, nourishing, high gloss, good affinity with skin and SPF boost. Lubricity and non-greasy.
RJS-2505	C30-C45 Alkyl Dimethicone	0.920~0.970	65~75	Silky and moist feel. Moisture and nourishing performance. Compatible with many organic ingredients; Outstanding lubricating and glossing. Ideal ingredients for color cosmetics.

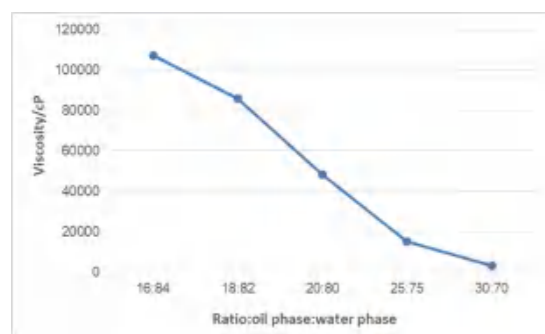
Multifunctional Silicone Oils

TRADE NAME	INCI NAME	Viscosity, cSt	Gum Content, %	Features
RJS-1209	Dimethicone (and) Dimethicone/ Vinyl dimethicone Crosspolymer	3,000~5,000	95~99	Soft silky and non-greasy feeling. Excellent smoothness. Long-lasting smooth sensory on skin and moist effect.
RJS-1211	Dimethicone (and) Dimethicone Crosspolymer	4,000~8,000	15~25	Provide a luxurious silky feel, significant smoothness and softness. Unique rheology. Help smoothen hair cuticles in hair care products. D5 free.
RJS-1208	Cyclopentasiloxane (and) Dimethiconol (and) Caprylyl Methicone (and) Dimethicone/ Vinyl dimethicone Crosspolymer	7,000~15,000	18~28	Provide non-tacky, non-greasy sensory. Good spreadability.
RJS-1212	Cyclopentasiloxane (and) Dimethicone Crosspolymer	4,000~6,500	20~30	Provide a luxurious, silky, smooth and soft sensory. Unique rheology. Help smoothen hair cuticles in hair care products.

Polyether Modified Silicone Fluids

TRADE NAME	INCI NAME	Viscosity, cSt	Applicable System	Features
RJS-3290	PEG/PPG-15/15 Dimethicone	300~600	O/W	Excellent emulsifying and wetting performance. Foaming- stable properties.
RJS-3293	PEG-12 Dimethicone	200~500	O/W	Excellent water solubility, anti-static. Foaming- stable properties.
RJS-7320	Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone	40~125	W/O, W/Si	As a formulation aid dispersing both polar and non-polar ingredients in formulation.
RJS-7321	Dimethicone (and) PEG/PPG-18/18 Dimethicone	50~1,000	W/O, W/Si	As a formulation aid dispersing both polar and non-polar ingredients in formulation.
RJS-7322	Lauryl PEG-8 Dimethicone	400~800	O/W, Si/W	Good Compatibility with silicones and organic oils.
RJS-7325	PEG-10 Dimethicone	400~1,600	W/O, W/Si	Easy to emulsify under cold or hot conditions.
RJS-7326	Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone	500~2,500	W/O, W/Si	Excellent dispersing ability of powders.
RJS-7329	Cetyl PEG/PPG-10/1 Dimethicone	700~2,300	W/O, W/Si, O/W/O, W/O/W	Excellent stability and non-sticky sensory. Compatible with a broad range of oils.

Emulsification Performance -- RJS-7329



Influence of phase ratio on emulsion viscosity.

Sensory Panel Test -- RJS-7329



Sensory panel test of RJS-7329 when 1 (spreading) and 2 (5 min after spreading).





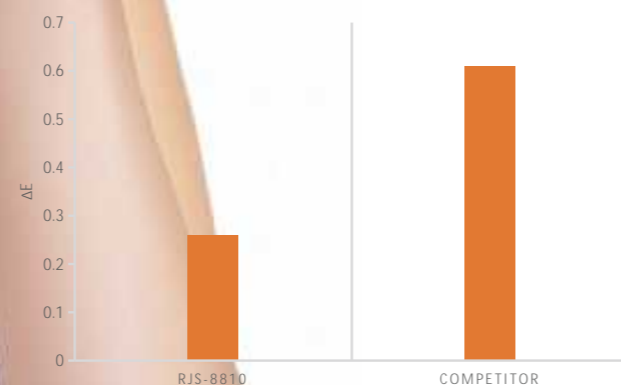
Silicone Resins

TRADE NAME	INCI NAME	Apperance	Bulk Density, g/cm ³	Features
RJS-8810	Trimethylsiloxysilicate	White powder	0.45~0.75	Excellent film-forming properties and hydrophobicity. Enhance the SPF value and long-lasting performance of the cosmetics.
RJS-8810A	Trimethylsiloxysilicate	Colorless to light yellow, transparent liquid		Excellent hydrophobicity. It is recommended to be used with other film formers to improve the film performance.
RJS-8820	Trimethylsiloxysilicate (and) Polypropylsilsesquioxane	White powder	0.45~0.75	Excellent film-forming properties and hydrophobicity. Enhance the SPF value and long-lasting performance of the cosmetics. Better anti-transfer and wash-off resistant performance than RJS-8810.

TRADE NAME	INCI NAME	Viscosity, cSt	Resin Content, %	Features
RJS-8812	Trimethylsiloxysilicate (and) Dimethicone	300~800	40~60	Long-lasting moisturizing. Excellent water repellency. SPF booster.
RJS-8815	Trimethylsiloxysilicate (and) Cyclopentasiloxane	300~500	40~60	Excellent film-forming properties and hydrophobicity. SPF booster. Washing durability.
RJS-8819	Trimethylsiloxysilicate (and) Polypropylsilsesquioxane (and) Isododecane	100~1,000	75~80	Quick and excellent film-forming properties for a comfortable, non-tightening feel. Long-lasting moisturizing. SPF booster.

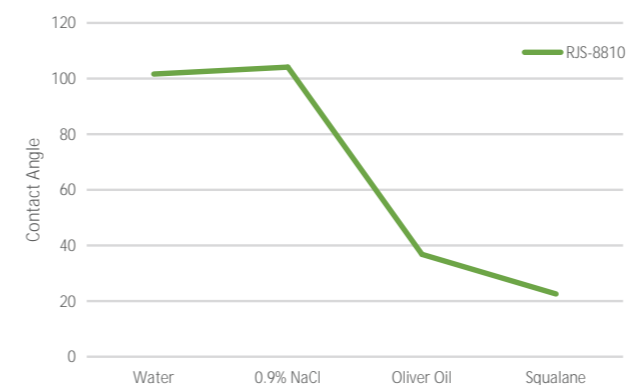
TRADE NAME	INCI NAME	Apperance	Average particle size, μm	Features
RJS-8910	Polymethylsilsesquioxane	White Powder	10	Good oil control. Good lubricity and soft skin feel. Good spreadability and soft focus effects. They are available with different grain diameters.
RJS-8902			2	
RJS-8905			5	
RJS-8907			7	

Color Transfer -- RJS-8810



RJS-8810 has a low color difference value and good anti-migration performance.

Water & Oil Repellency -- RJS-8810



Water & Oil repellency of RJS-8810, including NaCl solution for human sweating simulation, Olive oil for food imports simulation and Squalane for human sebum simulation.

Silicone Elastomers

TRADE NAME	INCI NAME	Viscosity, cSt	Non-volatile Content, %	Features
RJS-9040	Cyclopentasiloxane (and) Dimethicone / Vinyl dimethicone Crosspolymer	250,000~580,000	13~17	Easy dispersion in oil phase. Provide cushioning and light silky, non-greasy sensory.
RJS-9041	Dimethicone (and) Dimethicone / Vinyl dimethicone Crosspolymer	250,000~580,000	>70	Excellent spreading performance. Excellent silky, cushion, non-greasy sensory. Can be used as thickening agent in W/O systems.
RJS-9046	Cyclopentasiloxane (and) Dimethicone Crosspolymer (and) Dimethicone/ Vinyl Dimethicone Crosspolymer (and) Dimethiconol	250,000~450,000	14~17	Can be dispersed in oil phase easily. Act as a thickener in W/O systems. Silky, smoothing touch. Cold process. Slight sebum absorption. Reduce the stickiness of the formula.
RJS-9045	Cyclopentasiloxane (and) Dimethicone / Vinyl dimethicone Crosspolymer	300,000~600,000	11~14	Easy dispersion in oil phase. Provides cushioning and light silky, non-greasy sensory. Slight sebum absorption.
RJS-9080	Caprylyl Methicone (and) Cyclopentasiloxane (and) Dimethicone Crosspolymer	150,000~300,000	16~18	Good compatibility with cosmetic ingredients. Strong smoothness and cushioning. Excellent spreading and durability. High transparent and low balling effect.
RJS-9086	Cyclopentasiloxane (and) Caprylyl Dimethicone Ethoxy Glucoside (and) Dimethicone Crosspolymer	2,000~50,000	22~32	Natural source of raw materials. Self-emulsifying property. Non-greasy sensory on skin. Provide cushion and light silky feel. Acts as a thickening agent for W/O and W/Si formulas.

TRADE NAME	INCI NAME	pH	Non-volatile Content, %	Features
RJS-9266	Dimethicone/Vinyl dimethicone Crosspolymer (and) Laureth-3 (and) Laureth-25	5.0~7.5	62~68	Non-ionic O/W Suspension of silicone elastomer. Ease to formulate. Can be post-added. Cushion and silky sensory on skin. Reduce tackiness of the formulation.
RJS-9267	Dimethicone Crosspolymer (and) C12-14 Pareth-12	3.0~7.5	60~65	Non-ionic O/W emulsion. Long-lasting velvety feeling. Easy to use. Instant anti-wrinkle effect.

TRADE NAME	INCI NAME	Apperance	Average particle size, μm	Features
RJS-9106	Dimethicone/Vinyl dimethicone Crosspolymer	White powder	20	Excellent absorption of oil and sebum. Reduce tackiness of the formulation. Provides cushion and non-greasy sensory.
RJS-9107	Dimethicone/Vinyl dimethicone Crosspolymer (and) Silica	White powder	15	Long lasting powdery and smooth sensory. Capable of absorbing polar and non-polar oils. Soft focus effect.

Alkyl Dimethicone

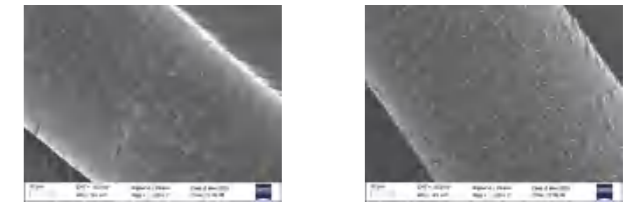
TRADE NAME	INCI NAME	Viscosity, cSt	Specific Gravity (25 °C)	Features
RJS-4110	Lauryl Dimethicone	2.0~6.0	0.810~0.840	Enhances gloss. Excellent compatibility with organic ingredients
RJS-2502L	Cetyl Dimethicone	5~10	0.825~0.835	Enhances gloss & SPF value. Keeps skin moisty without clogging the pores. Excellent compabilty and spreadibility, which can increase the stability of formulation. Ideal to replace the Dimethicone in high-end cosmetics.
RJS-2502H	Cetyl Dimethicone	150~280	0.915~0.925	



Silicone Emulsions

TRADE NAME	INCI NAME	Silicone Content, %	Particle Size (D50)
RJS-6315	Amodimethicone (and) Laureth-7 (and) Isolaureth-6 (and) Glycerin	≥30	<50 nm
RJS-6334S	Amodimethicone (and) Laureth-3 (and) Laureth-9	20~23	<50 nm
RJS-6318	Amodimethicone (and) Trideceth-5 (and) Trideceth-10 (and) Glycerin	20~26	<50 nm
RJS-6230	Silicone Quaternium-18 (and) Trideceth-3 (and) Trideceth-9	22~30	<0.2 μm
RJS-6258	Dimethiconol (and) TEA-dodecylbenzenesulfonate (and) Laureth-12	50~55	<0.2 μm
RJS-6461	Dimethicone (and) Trideceth-3 (and) Trideceth-10	58~64	<10 μm
RJS-6314	Amodimethicone (and) Cetrimonium Chloride (and) Trideceth-12	33~37	<0.3 μm
RJS-6314A	Amodimethicone (and) Cetrimonium Chloride (and) Trideceth-12	35~40	<0.3 μm
RJS-6280	Bis-Cetearyl Amodimethicone (and) Cetareth-7 (and) Cetareth-25	40~50	<0.5 μm
RJS-6412	Dimethiconol (and) TEA-dodecylbenzenesulfonate (and) Trideceth-10	54~58	<0.2 μm
RJS-6422	Dimethiconol (and) TEA-Dodecylbenzenesulfonate (and) Trideceth-10	54~58	<0.3 μm
RJS-6336B	Dimethiconol (and) TEA-Dodecylbenzenesulfonate	59~64	<1 μm
RJS-6336BP	Dimethiconol (and) TEA-Dodecylbenzenesulfonate (and) Laureth-23	59~63	<1 μm
RJS-6336C	Dimethiconol (and) TEA-Dodecylbenzenesulfonate	≥50	<1 μm
RJS-6336D	Dimethiconol (and) Sodium dodecylbenzenesulfonate	48~54	<1 μm
RJS-6260	Dimethicone (and) Laureth-4 (and) Laureth-23	65~70	<3 μm
RJS-6480	Dimethicone (and) Cocamidopropyl Betaine (and) C12-15 Pareth-3 (and) Guar Hydroxypropyltrimonium Chloride	66~70	28-42 μm
RJS-6488	Dimethicone (and) Laureth-4 (and) Laureth-23	66~70	15-45 μm
RJS-6490	Dimethicone (and) Trideceth-6 (and) Trideceth-3 (and) Steareth-6	70~74	15-45 μm

Silicone Deposition -- RJS-6314



RJS-6314 dilution treatment leads to the deposition of silicone on hair surface, helping to smooth the scales.

Volume Performance -- RJS-6258



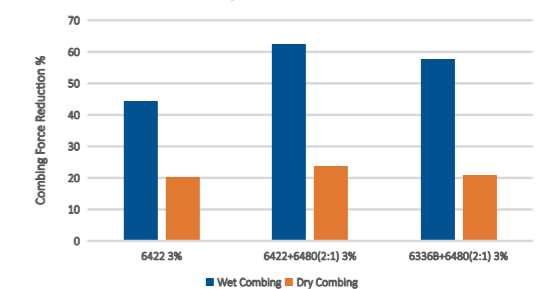
The hair volume changes after the treatment by SLES, RJS-6314 or RJS-6258.

Shine Performance -- RJS-6336B



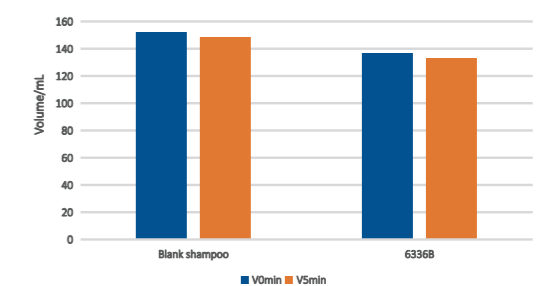
The change on hair gloss is observed before and after the treatment by RJS-6336B on the hair tress.

Combing Reduction -- RJS-6336B/6422 + RJS-6480



The shampoo containing RJS-6336B/6422 and RJS-6480 enhances the reduction of combing force.

Foam Performance -- RJS-6336B



Less effect on the foaming performance after RJS-6336B is applied in shampoo by 2%.

