

Leader of low viscosity silicone oil



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Runhe

Silicone oil for Personal Care

Stock code: 300727
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COMPANY PROFILE

Runhe Materials was established in 2000. It is a high-tech enterprise specializing in the research and development, production and sales of silicone deep-processing products and textile printing and dyeing auxiliaries. Its products cover 14 major application areas: thermal management materials, electronic packaging materials, adhesives, personal care additives, agricultural silicone spreading and penetrating agent, material lubrication and mold release, LSR, Coating leveling and defoaming, silicone fabric finishing agents, non-silicone softeners, pre-treatment additives, Dyeing auxiliaries, printing auxiliaries, waterproofing agents, etc. After 20 years of hard work, it has become one of the leading domestic enterprises in the application of textile chemicals and new silicone materials. On November 27th, 2017, Runhe Materials was successfully listed on the Shenzhen Stock Exchange with the stock code 300727.

HONOR

- National High-tech Enterprise
- Provincial Enterprise Research Institute
- Provincial High-tech Enterprise Research and Development Center
- Zhejiang Postdoctoral Workstation
- Zhejiang Province Technology Enterprise
- Municipal Four-Star Green Factory
- China Well-Known Trade Mark

R&D

Runhe Materials implements the marketing concept of opening up the market with technological innovation, continuously improves its independent innovation capabilities, establishes a 1,700 square meter provincial high-tech enterprise research and development center, and has a complete new product development system; the experimental analysis is equipped with perfect experimental equipment, with Gas chromatograph, high-performance liquid chromatograph, atomic absorption spectrophotometer, mass spectrometer, infrared spectrometer, GPC, thermal gravimetric instrument TGA, etc. . Analyze and identify the composition and structure of various chemical materials and new products to provide effective guarantee for the development and innovation of new products. In the production process of reactors, rectification towers, boilers, steam, tank area automatic filling and other devices, the advanced DCS remote simulation automatic control system is adopted to realize remote operation control and improve the level of automation.



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1

Excellent replacement of D5, the cyclics content meets EU requirements, with REACH Certificate

2

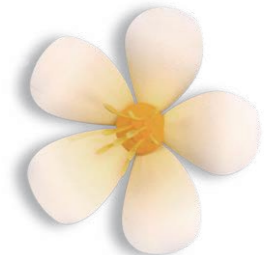
Unique volatility, fresh skin feel, non-greasy, meeting the needs of various formulations

3

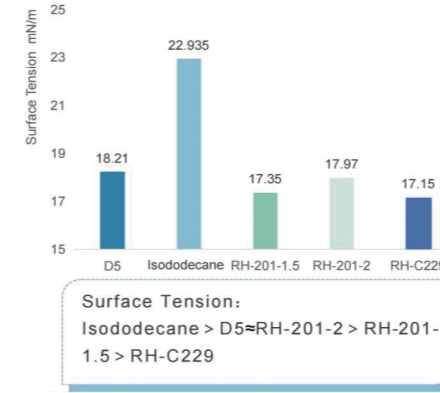
As an aerosol carrier, non-allergenic, high safety



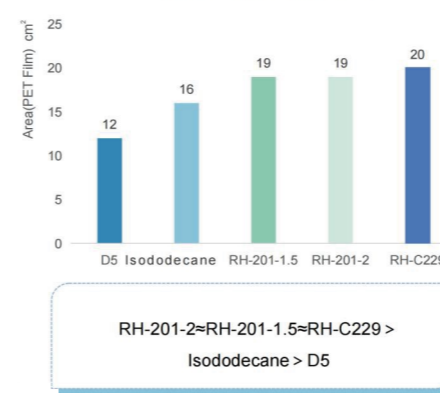
Product Grade	INCI Name	CAS No.	Content	D4 Cyclics Content	D5 Cyclics Content	D6 Cyclics Content	Standard Package
RH-201-0.65	Disiloxane	107-46-0	>99%	<0.1%	<0.1%	<0.1%	15kg/drum 150kg/drum
RH-201-1	Trisiloxane	107-51-7	>99%	<0.1%	<0.1%	<0.1%	20kg/drum 150kg/drum
RH-201-1.5	Dimethicone	141-62-8	>99%	<0.1%	<0.1%	<0.1%	20kg/drum 160kg/drum
RH-201-2	Dimethicone	141-63-9	>99%	<0.1%	<0.1%	<0.1%	20kg/drum 170kg/drum
RH-210H	Caprylyl Methicone	17955-88-3	>99%	<0.1%	<0.1%	<0.1%	20kg/drum 170kg/drum
RH-C229	Methyl Trimethicone	17928-28-8	>99%	<0.1%	<0.1%	<0.1%	20kg/drum 160kg/drum
RH-CM5	Cyclopentasiloxane	541-02-6	>99%	<0.1%	>99%	-	950kg/IBC 190kg/drum



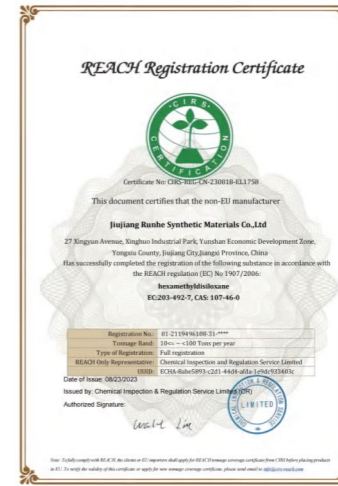
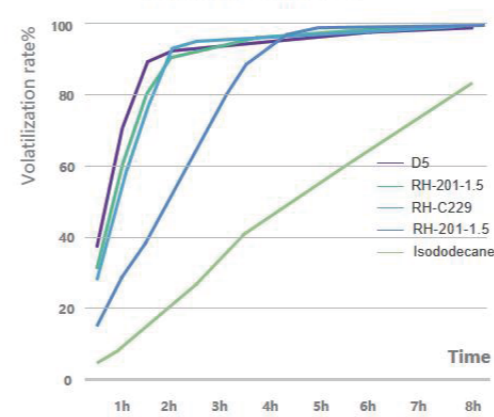
Surface Tension Comparison



Spreadability Comparison



Volatility Comparison



- 1

Linear siloxane with cyclics content meeting European Standard
- 2

Can be added in formulas such as washing care, make-up, and skin care, with lubricated skin feel, non-greasy
- 3

As a dispersion carrier of silicone elastomer, it has a silky skin feel, can be used in makeup formulations

Product Grade	INCI Name	CAS No.	D4 Cyclics Content	D5 Cyclics Content	D6 Cyclics Content	Standard Package
RH-201-3	Dimethicone	63148-62-9	<0.1%	<0.1%	<0.1%	20kg/drum 180kg/drum
RH-201-5	Dimethicone	63148-62-9	<0.1%	<0.1%	<0.1%	20kg/drum 190kg/drum
RH-201-6	Dimethicone	63148-62-9	<0.1%	<0.1%	<0.1%	20kg/drum 190kg/drum
RH-201-10	Dimethicone	63148-62-9	<0.1%	<0.1%	<0.1%	20kg/drum 190kg/drum
RH-201-100	Dimethicone	63148-62-9	<0.1%	<0.1%	<0.1%	20kg/drum 200kg/drum
RH-201-350	Dimethicone	63148-62-9	<0.1%	<0.1%	<0.1%	20kg/drum 200kg/drum
RH-201-1000	Dimethicone	63148-62-9	<0.1%	<0.1%	<0.1%	20kg/drum 200kg/drum
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RH-201-60000	Dimethicone	63148-62-9	<0.1%	<0.1%	<0.1%	20kg/drum 200kg/drum



Skin care :

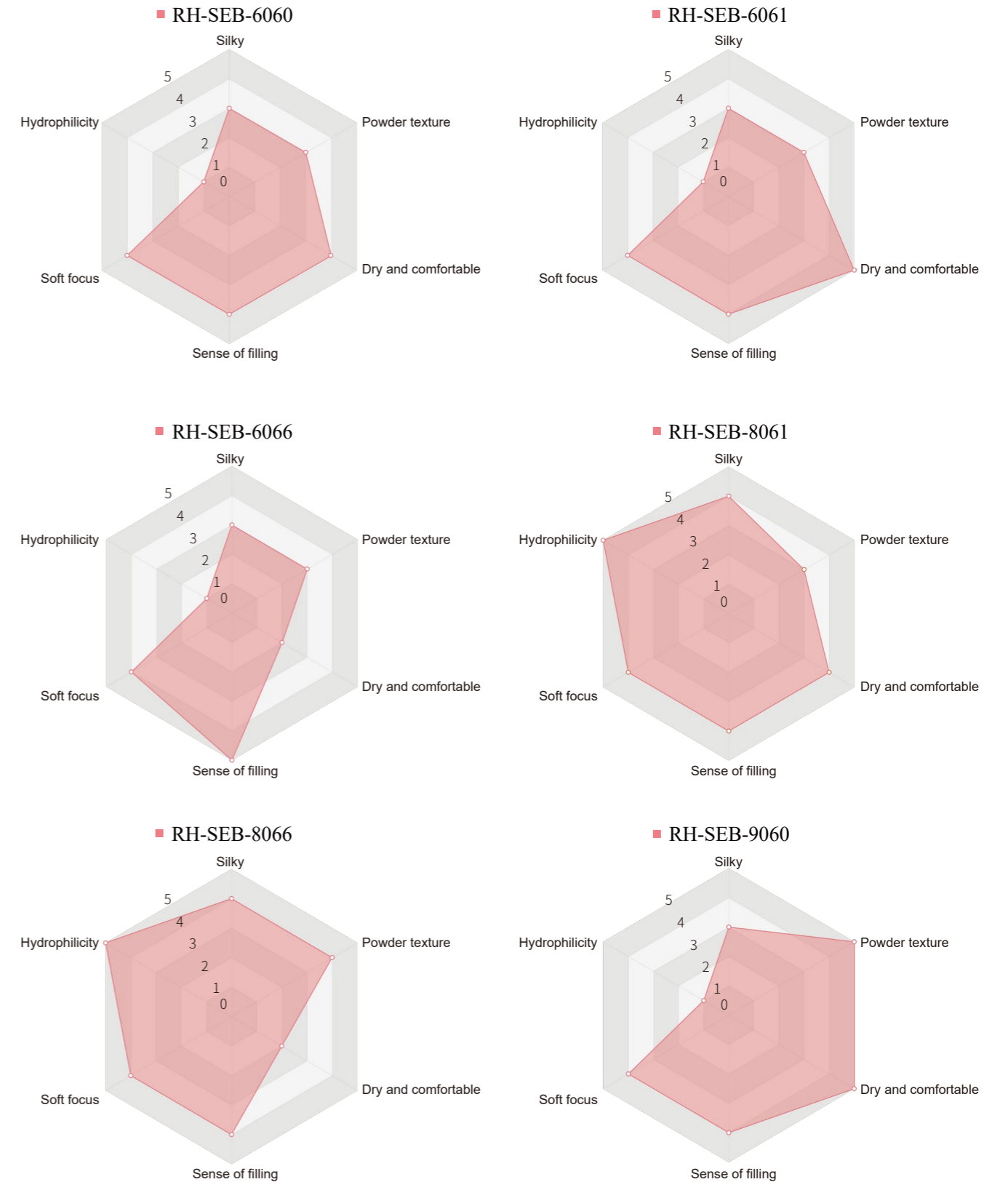
As the main matrix or additive of skin care cream, the skin feels soft, silky and dry with a powdery texture and elastic, can cover small wrinkles, bring instant visual wrinkle lightening effect; with good spreadability and slight Extinction effect.

Make-up:

It can be used to make-up formulations as a facial oil absorbent to achieve a silky matte visual effect; added to makeup primer and foundation can greatly improving the phenomenon of floating powder or makeup dropping out, light-fitting and more natural.

Product Grade	INCI Name	Continuous phase	Solid content	Standard Package
RH-SEB-6060	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	D5	13%	40kg/drum 160kg/drum
RH-SEB-6061	Dimethicone (and) Dimethicone / Vinyl Dimethicone Crosspolymer	RH-201-1.5	15%	40kg/drum 160kg/drum
RH-SEB-6066	Dimethicone (and) Dimethicone / Vinyl Dimethicone Crosspolymer	RH-201-6	18%	40kg/drum 160kg/drum
RH-SEB-8061	Dimethicone (and) PEG-10 Dimethicone / Vinyl Dimethicone Crosspolymer	RH-201-1.5	15%	40kg/drum 160kg/drum
RH-SEB-8066	Dimethicone (and) PEG-10 Dimethicone / Vinyl Dimethicone Crosspolymer	RH-201-6	18%	40kg/drum 160kg/drum
RH-SEB-9060	Cyclopentasiloxane (and) Dimethicone Crosspolymer	D5	15%	40kg/drum 160kg/drum

Characteristics Evaluation



Silicone Elastomer

Silicone Elastomer Emulsion

Product Grade	INCI Name	Solid Content	Application	Feature	Standard Package
RH-SEE-3065	Dimethicone(and)Dimethicone / Vinyl Dimethicone Crosspolymer (and) C12-14 Sec-Pareth-9 (and) Trideceth-3 (and) 1,2- Hexanediol (and) Hydrox-yacetophenone (and) Water	40~50%	Eye cream Skin lotion Care cream	Covers fine lines Smooth skin feel	20kg/drum

Silicone Elastomer Powder

Product Grade	INCI Name	Particle size	Feature	Standard Package
RH-SEP-60T	Dimethicone/Vinyldimethicone Crosspolymer (and) Silica	8µm	Velvety touch, microsphere structure, low oil absorption, mainly provides refreshing and silky powder skin feel	20kg/bag
RH-SEP-60P	Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer	8µm	High oil absorption, reducing the sticky skin feel of the formulation	20kg/bag



Modified Silicone Oil



1

By changing the HLB value of silicone oil, it is more compatible with the formulation system and can be used as different formulation emulsifiers

2

In formulas with more powder, it can be used as a suspension agent to improve the dispersion ability of the powder

Silicone emulsifier

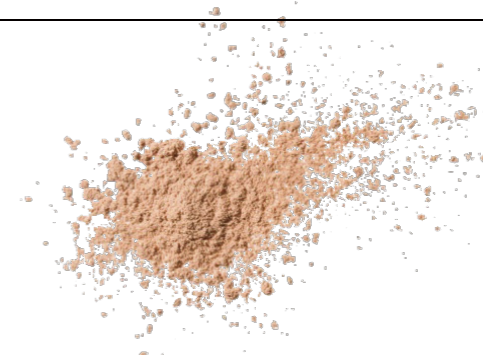
Product Grade	INCI Name	HLB Value	Application	Standard Package
RH-SPE-193HP	PEG-12 Dimethicone	12	Hair gel Skin lotion Shaving cream	20kg/drum 200kg/drum
RH-C1017	PEG-10 Dimethicone	4.5	Skin care cream Powder Sunscreen	20kg/drum 200kg/drum

Powder suspension additives

Product Grade	INCI Name	Specific gravity	Application	Standard Package
RH-C230	Bis-hydroxyethoxypropyl Dimethicone	0.97~0.99	Makeup, sunscreen, good dispersion and suspension of powder	20kg/drum 200kg/drum

Phenyl Silicone Oil

Product Grade	INCI Name	Specific gravity	Refractive index	Application	Standard Package
RH-C156A	Diphenylsiloxy Phenyl Trimethicone	0.99	1.49	Hair oil Eye shadow Skin care	20kg/drum 200kg/drum
RH-C226A	Phenyl Trimethicone	0.98	1.46	Hair oil Eye shadow Skin care	20kg/drum 200kg/drum
RH-C256A	Trimethylpentaphenyltrisiloxane	1.09	1.58	Essence Skin care Hair care essential oil	20kg/drum



Film Former

1

The RH-SR series is a large molecular weight silicone powder that can be used as a film forming agent to form a durable polymer film with excellent resistance to migration and elution to improve product durability after use. Runhe film former series products are used in non-stick cup red, lip glaze, BB cream, liquid foundation, liquid eyeliner, eyelash and other fields, to achieve the ideal cosmetic effect

Product Grade	INCI Name	Particle Size	Film Hardness	Waterproof	Standard Package
RH-SR-40	Trimethylsiloxysilicate	fine	fragile	medium	20kg/drum

Product Grade	INCI Name	Disperse medium	Film Former Content	Film Former	Standard package
RH-SR455D	Cyclopentasiloxane (and) Trimethylsiloxysilicate	D5	50%	RH-SR-40	25kg/drum
RH-SR475D	Cyclopentasiloxane (and) Trimethylsiloxysilicate	D5	70%	RH-SR-40	25kg/drum
RH-SR4712C	Isododecane (and) Trimethylsiloxysilicate	Isododecane	70%	RH-SR-40	25kg/drum
RH-SR4715	Dimethicone (and) Trimethylsiloxysilicate	RH-201-1.5	70%	RH-SR-40	25kg/drum



Silicone Resin Powder

2

Spherical structure, excellent thermal stability, smoothness, fine powder, can cover fine lines, isolate ultraviolet rays, help pigment dispersion, prevent agglomeration, excellent dispersion performance, widely used in makeup and skin care

Product Grade	INCI Name	Powder particle size	Oil absorption value (g/100g)	Application	Standard Package
RH-SR-P2	Polymethylsilsesquioxane	2µm	55~65	Pressed powder Sunscreen Makeup	20kg/bag
RH-SR-P5	Polymethylsilsesquioxane	5µm	55~65	Pressed powder Sunscreen Makeup	20kg/bag



1

Used in the formula of essential oil for hair care, it can form a film on the damaged hair, improve the combing and moisturize long term

2

The skin feeling is fresh and delicate, the moisturizing in the skin care products is easy to push out, and does not block pores

3

The upgraded product uses raw materials in line with European standards, providing better solutions for the European market(RH-C231A, RH-C232, RH-C232A)

Product Grade	INCI Name	Disperse medium	Viscosity (mpa.s)	Dimethiconol Content	Standard Package
RH-C231	Cyclopentasiloxane (and) Dimethiconol	D5	6000	15%	20kg/drum 190kg/drum
RH-C2311	Cyclopentasiloxane (and) Dimethicone	D5	6000	15%	20kg/drum 190kg/drum
RH-C231A	Dimethicone (and) Dimethiconol	RH-201-5	1500	12%	20kg/drum 190kg/drum
RH-C232	Dimethicone (and) Dimethiconol	RH-201-1.5	4000	15%	20kg/drum 180kg/drum
RH-C232A	Dimethicone (and) Dimethiconol	RH-201-1.5	8000	18%	20kg/drum 180kg/drum

