

Silica for Eye Cosmetics

Fine Silica Microspheres



RESiFATM

SOLESPHERE

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RESIFA™ SOLESPHERE™ Characteristics

- Oil absorption
- Particles do not break
- Spreadability
- Stable in formulation
- Provides smooth, even application
- Improves even distribution of pigments

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Available Grades

SOLESHERE	Particle Size	Surface Area	Pore Volume	Pore Diameter	Oil Absorption
H-121	12 μm	800 m^2/g	0.8 mL/g	4 nm	150 $\text{mL}/100\text{g}$
H-53	5 μm	700 m^2/g	1.9 mL/g	11 nm	400 $\text{mL}/100\text{g}$
NP-100	10 μm	80 m^2/g	0.1 mL/g	-	35 $\text{mL}/100\text{g}$
NP-200	20 μm	100 m^2/g	0.1 mL/g	-	40 $\text{mL}/100\text{g}$

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A close-up photograph of a person's eye. A black mascara wand is shown applying dark mascara to the upper eyelashes. The eye is light-colored, and the skin around it is fair. The image is partially obscured by a blue diagonal graphic element on the left side of the slide.

Characteristics of Good Mascara

- Volume
- Lengthening
- Non-clumping
- Thickening
- Long wear

Benefits of SOLESPHERE fine silica

- SOLESPHERE H-121, NP-100 and NP-200 are all excellent in contributing to thickness and volume.
- Provides a smooth finish for mascara formulations.

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Formulation Sample for Mascara (MC-004)

Phase	Trade Name	INCI Name	wt (%)
A	Refined Carnauba Wax Tokusei No.1	Copernicia Cerifera (Carnauba) Wax	2.00
	UltimoPur Beeswax	Beeswax	7.00
	Ozokerite Wax 1021	Ozokerite	0.75
	REFINED STEARIC ACID 750V	Stearic Acid	3.00
	RHEODOL SP-S10V	Sorbitan Stearate	1.00
	PARLEAM 24	Hydrogenated Polyisobutene	1.00
	Plandool-H	Phytosteryl/Isostearyl/Cetyl/Stearyl/Behenyl Dimer Dilinoleate	1.00
	KALCOL 6098	Cetyl Alcohol	1.00
	KF-995	Cyclopentasiloxane	3.00
	MEKKINS-P	Propylparaben	0.10
B		Water	2.25
	GOHSENL EG-40C	Polyvinyl Alcohol	0.25
C		Water	19.00
	HEC DAICEL SE850	Hydroxyethylcellulose	1.00
D		Water	11.65
	1,3-Butylene Glycol[1,3-BG]	Butylene Glycol	5.00
	MEKKINS-M	Methylparaben	0.20
	MEKKINS-E	Ethylparaben	0.10
		Aminomethyl Propanol	0.70
E	TIPAQUE CR-50 COSMETIC GRADE	Titanium Dioxide (and) Aluminum Hydroxide	0.50
	SOLESPIRE H-121	Silica	1.50
	TAROX IRON OXIDE LL-XLO	Iron Oxides	2.00
	TAROX IRON OXIDE R-516-L	Iron Oxides	2.00
	TAROX IRON OXIDE BL-100	Iron Oxides	4.00
F	VINY SOL 2140L	WaterAcrylates (and) VA Copolymer	30.00


Characteristics of Good Eyeliner

- Ease of application
- Color intensity
- Long wearing

Benefits of SOLESPHERE fine silica

- SOLESPHERE H-121, NP-100, and NP-200 provide excellent colorability and spreadability to prevent clumping
- Absorbs oil which promotes a longer lasting effect
- Provides a silky, smooth feel

Formulation Sample for Eyeliner (AGAC DLLD V7.3)



Phase	Trade Name	INCI Name	wt (%)
A		Xanthan Gum	0.10
		Glycerin	4.00
		Water	40.80
B	MiyoAQUA BLACK NH	Iron Oxides (and) Algin	20.00
C	Dub Diol	Methylpropanediol	3.30
	Symsave H	Hydroxyacetophenone	0.50
D	Dub 810 C	Coco-Caprylate/Caprates	10.00
	Emulfit FN50	Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer (and) Water (and) Caprylic/Capric Triglyceride (and) PEG-40 Hydrogenated Castor Oil	3.00
E	COVACRYL MS11 WP	Acrylates Copolymer (and) Water (and) Phenoxyethanol	15.00
F	SOLESPHERE NP-100	Silica	1.50
	SOLESPHERE H-121	Silica	1.00
	Symdiol 68	1,2-Hexanediol (and) Caprylyl Glycol	0.80

Benefits for Eye Shadow

- Easily colorable
- Provides a soft focus/matting appearance
- Improves the distribution of pigments
- Provides lubricity and a silky, smooth feel
- Excellent oil absorption for a longer lasting effect
- SOLESPHERE H-121 and NP-100 are good recommendations for eye shadow

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Formulation Sample for Eye Shadow (MC-005)

Phase	Trade Name	INCI Name	Pink wt (%)	Yellow wt (%)	Purple wt (%)
A	KF-96A-20cs	Dimethicone	2.245	2.694	2.245
	SALACOS P-8	Ethylhexyl Palmitate	1.250	1.500	1.250
	Plandool-S	Phytosteryl/Isostearyl/Cetyl/Stearyl/Behenyl Dimer Dilinoleate	0.500	0.600	0.500
	UVINUL MC 80	Ethylhexyl Methoxycinnamate	0.500	0.600	0.500
	RISOCAST ODSHS	Octyldodecyl Stearoyl Stearate	0.500	0.600	0.500
	TOCOPHEROL 100	Tocopherol	0.005	0.006	0.005
B	SA-TA-46R	Talc (and) Dimethicone	57.550	65.850	63.250
	POWDERBASE L	Zinc Laurate	5.000	5.000	5.000
	SA-TR-10	Titanium Dioxide (and) Aluminum Hydroxide (and) Dimethicone	1.500	2.000	-
	MICA R-1000	Mica	5.000	5.000	5.000
	SOLESPHERE NP-100	Silica	10.000	10.000	10.000
	MEKKINS-M	Methylparaben	0.100	0.100	0.100
	MEKKINS-P	Propylparaben	0.050	0.050	0.050
	SA-RPS-10	Iron Oxides (and) Dimethicone	0.600	-	-
	SA-YP-10	Iron Oxides (and) Dimethicone	-	1.000	-
	DK D&C RED No.30	Red 30	0.200	-	0.100
	C43-1810 SunCROMA Ultramarine Blue	Ultramarines	-	-	1.500
	Flamenco Winter Sparkle 130Q	Mica (and) Titanium Dioxide	-	5.000	-
	TWINKLEPEARL 450	Synthetic Fluorophlogopite (and) Titanium Dioxide (and) Tin Oxide	-	-	10.000
	Flamenco® Sparkle Gold 220J	Mica (and) Titanium Dioxide	15.000	-	-

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Important Properties for Eyebrow Products

- Ease of application
- Long wear
- Texture
- Colorability

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Benefits of SOLESPHERE for Eyebrow Products

- Excellent slip/lubricity allowing for ease of application
- A small amount of SOLESPHERE silica will provide a silky, smooth texture and feel
- As a fine white powder, it is easily colorable

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Formulation Sample for Eyebrow Products (MC-003)

Phase	Trade Name	INCI Name	Dark Brown wt (%)	Brown wt (%)	Light Beige wt (%)
A	KF-96A-20CS	Dimethicone	1.445	1.445	1.445
	KF-56A	Diphenylsiloxy Phenyl Trimethicone	2.500	2.500	2.500
	ELDEW PS-203	Phytosteryl/Octyldodecyl Lauroyl Glutamate	0.050	0.050	0.050
	SALACOS EH	Ethylhexyl Hydroxystearate	1.000	1.000	1.000
	TOCOPHEROL 100	Tocopherol	0.005	0.005	0.005
B	NAI-TA-46R	Talc (and) Disodium Stearoyl Glutamate (and) Aluminium Hydroxide	29.850	44.350	79.020
	Kaolin JP-100	Kaolin	3.000	3.000	3.000
	SA-TR-10	Titanium Dioxide (and) Aluminum Hydroxide (and) Dimethicone	2.000	6.000	1.500
	SOLESPHERE H-121	Silica	5.000	3.000	5.000
	AMIHOPE LL	Lauroyl Lysine	1.000	1.000	1.000
	POWDERBASE M	Zinc Myristate	3.000	3.000	3.000
	MEKKINS-P	Propylparaben	0.050	0.050	0.050
	MEKKINS-M	Methylparaben	0.100	0.100	0.100
	C43-1810 SuncROMA Ultramarine Blue	Ultramarines	2.000	-	-
	TAROX IRON OXIDE BL-100	Iron Oxides	30.000	14.000	0.500
	TAROX IRON OXIDE R-516-L	Iron Oxides	6.000	6.500	0.530
	TAROX IRON OXIDE LL-XLO	Iron Oxides	13.000	14.000	1.300

Summary

- SOLESPHERE silica is a great additive for mascara, eyeliner, eye shadow and eyebrow products.
- It provides benefits such as oil absorption, mattifying, stability in formulation, spreadability, and smooth and gentle feeling.
- SOLESPHERE silica is a naturally derived, non-microplastic, non-nano material that is coral and reef safe.

For more information, please visit resifasolesphere.com