

# Microplastics Alternative

Fine Silica Microspheres


# Characteristics of RESIFA™ SOLESPHERE™

- Environmentally safe, nonplastic, nonpetroleum ingredients
- Can be used in oil-in-water, water-in-oil and anhydrous formulations
- Provides SPF boost
- Reduces greasiness and stickiness
- Blurs pores
- Absorbs oil and perspiration
- Improves spreadability
- Provides a matte appearance



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# Benefits for Lipsticks

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- A close-up photograph of a gold-colored lipstick tube with a pinkish-red lipstick tip. The tube is lying diagonally across the frame. In the background, there are several small, round, colorful beads in shades of pink, purple, and green, which are slightly out of focus. The entire image is set against a light blue background that transitions into a white area on the right where the text is located.
- Can be used for both shiny and matte lipsticks
  - Provides long-lasting effect by absorbing sweat and sebum
  - Improves the formulation stability of lipstick
  - Alternative to microplastics

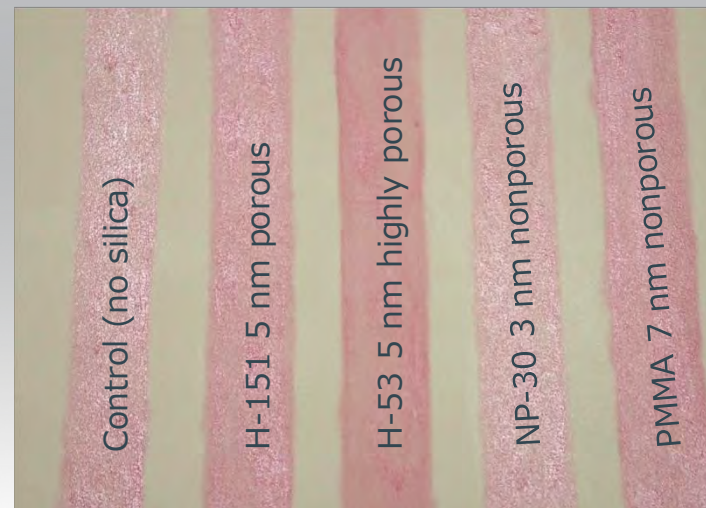
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# SOLESPHERE Grades for Lipsticks



Grade	Particle Size (μm)	Oil Absorption Capacity (mL/100 g)	Appearance	
			Gloss	Matte
H-51	5	150	low	medium
H-52	5	300	no	high
H-53	5	400	no	high
H-121	12	150	no	high
NP-30	3	30	medium	no
NP-100	10	35	low	medium



# Formulation Sample for Lipstick (MC-002)

Phase	Trade Name	INCI Name	wt (%)
A	Salacos 5418V	Pentaerythrityl Tetraisostearate	20.00
	Cosmol 43V	Polyglyceryl-2 Triisostearate	15.38
	Cosmol 222	Diisostearyl Malate	15.00
	CERESIN #810	Ceresin	10.00
	Sunwhite P-200	Petrolatum	10.00
	Nomcoat HP-30	Hydrogenated Polydecene	10.00
	Paraffin wax 125	Paraffin	5.00
	Multiwax W-445	Microcrystalline Wax	3.20
	Tocopherol 100	Tocopherol	0.05
	MEKKINS-P	Propylparaben	0.05
B	DK-PGT PASTE R7	Polyglyceryl-2 Triisostearate, Red 7 (CI 15850)	0.60
	DK-PGT PASTE Ti	Titanium Dioxide, Polyglyceryl-2 Triisostearate	0.40
	TAROX IRON OXIDE R-516P	Iron Oxides	0.30
	DK-PGT PASTE B1L	Polyglyceryl-2 Triisostearate, Blue 1 Lake (CI 42090)	0.02
C	SOLESPHERE	Silica	10.00

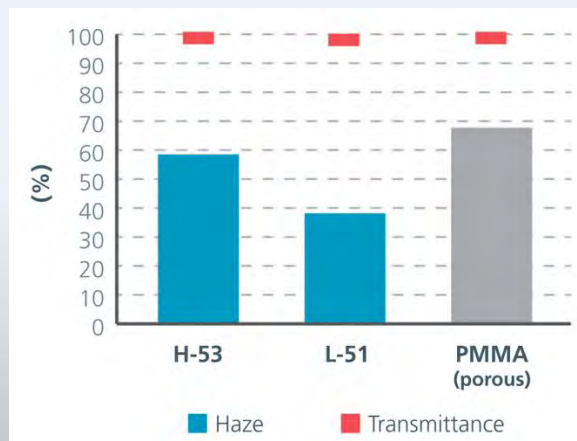
# Benefits for Pressed Powders & Foundations

- Blurring effect
- Rolling effect
- Soft feeling
- Spreadability
- Smoothness

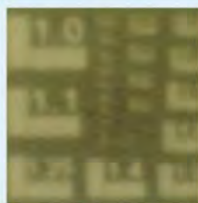



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# Haze and Transmittance Comparison



	Haze	Transmittance
SOLESPHERE H-53	58%	99%
SOLESPHERE L-51	38%	98%
PMMA (porous)	68%	99%

	SOLESPHERE H-121	SOLESPHERE H-53	SOLESPHERE L-51	PMMA (porous)
Particle size (μm)	12	5	5	3~8
Oil absorption (ml/100g)	150	400	150	No data
Coating film				

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# Formulation Sample for Pressed Foundation (A1-004)


Phase	Trade Name	INCI Name	wt (%)
A	MST-2 SERICITE S	Mica, Magnesium Stearate	40.00
	MST-1 TALC SX	Talc, Magnesium Stearate	28.72
	MST-1 MICA SX	Mica, Magnesium Stearate	8.90
	MST-1 TiO2 R250	Titanium Dioxide and Magnesium Stearate	8.90
	SunPURO Yellow Iron Oxide C339001	Iron Oxides	1.78
	SunPURO Red Iron Oxide C338001	Iron Oxides	0.36
	SunPURO Black Iron Oxide C33700	Iron Oxides	0.14
	SOLESPHERE H-52	Silica	1.50
B	Cosmol 222	Diisostearyl Malate	3.24
	Lexfeel N5 MB	Diheptyl Succinate, Capryloyl Glycerin/ Sebacic Acid Copolymer	1.73
	Phytosqualan	Squalane	2.62
	O.D.O	Caprylic/capric Triglyceride	0.88
	Cosmol 525	Isotridecyl Isononanoate	0.87
	Tocopherol 100	Tocopherol	0.01
	NIKKOGUARD 88	Ethylhexylglycerin, Glyceryl Caprylate	0.35

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# Benefits for Scrubs

- Particles do not break
- Stable in formulation
- Spherical particles provide gentle feeling
- Low collapsibility enables long-lasting scrubbing effect



Item		Spec	Method
Average Particle Size	D-200L	100~300 μm	Laser Scattering
	D-300L	—*	
Loss on Drying		≤ 13.0%	1 g, 105°C, 2 Hr
pH		≥ 4.0	10% Slurry

\* 200~400 μm as reference value

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# Formulation Sample for Massage Gel (A1-010)

Phase	Trade Name	INCI Name	wt (%)
A		Water	64.9
	1,3-Butylene Glycol[1,3-BG]	Butylene Glycol	15.0
	Malbit	Maltitol, Water	10.0
	Glycerin (86%)	Glycerin	5.0
	Phenoxyethanol-S	Phenoxyethanol	0.3
B	SIMULGEL EG QD	Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer, Isohexadecane, Polysorbate 80, Water	1.5
C		Lavendula Angustifolia (Lavender) Oil	0.3
D	SOLESPHERE D-300L, D-200L	Silica	3.0

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# Summary

- SOLESPHERE silica is a natural derived material, non-microplastic, non-nano material that is coral and reef safe.
- It is a great additive for lipsticks, pressed powders and foundations, and scrubs.
- SOLESPHERE silica provides benefits such as oil absorption, mattifying, stability in formulation, spreadability, and smooth and gentle feeling.

For more information, please visit [resifasolesphere.com](https://resifasolesphere.com)