



AGC

Talc Alternative

Fine Silica Microspheres

 **RESiFA**TM SOLESPHERE

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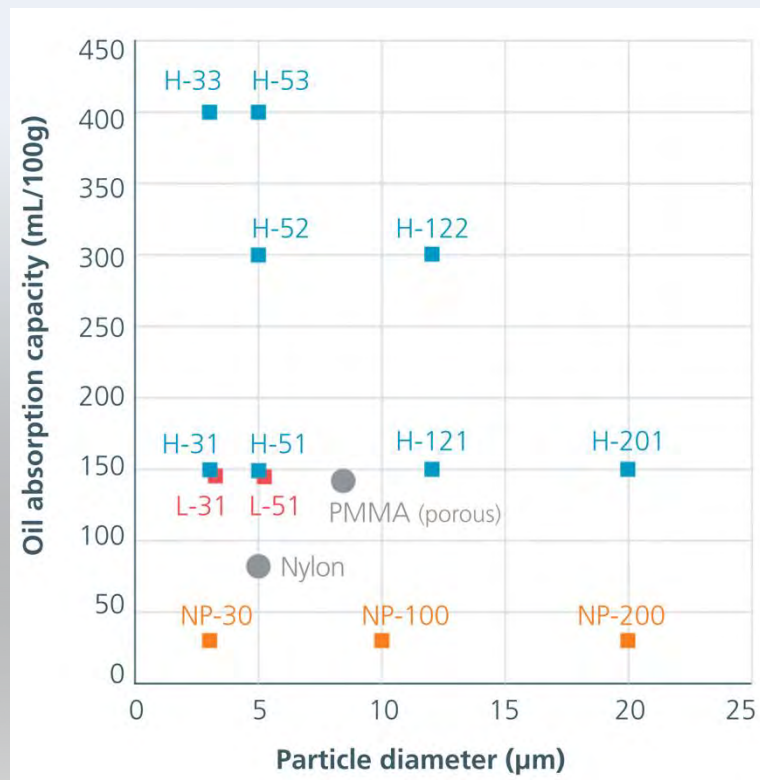
Alternative for Talc

- RESIFA™ SOLESPHERE™ silica microspheres are excellent alternatives to talc for liquid, dry powder and pressed powder applications.
- They are natural, sustainable and environmentally friendly materials.
- They have a wide portfolio of particle sizes and porosities.

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Benefits of RESIFA™ SOLESPHERE™

- Oil absorption
- Mattifying
- Moisturizing
- Reduced greasiness, sliminess and stickiness
- Soft focus, blurring
- SPF boosting



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Replacing Talc with SOLESPHERE H-121 and NP-30

Properties

	Particle Size	Oil Absorption
H-121	12 μm	150 mL/100g
NP-30	3 μm	<10 mL/100g

- Excellent performance in liquid applications
- Viable alternative in powder applications
- Enhances performance when combined with talc alternatives such as cornstarch, rice powder, calcium carbonate and mica

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SOLESPHERE H-121 and NP-30 Sensory Comparison

Feeling	No additive	Talc	SOLESPHERE	SOLESPHERE + Cornstarch
Coverage, Spreadability	★	★★	★★★	★★
Adhesion	★	★★	★★★	★★
Texture	★	★★	★★★	★★
Color	★	★★	★★★	★★

★: Average, ★★: Good, ★★★: Best

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Performance in Liquid Applications

- Better performance than talc
- Better feel
- Long-term solution

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Liquid Formula Comparison

Liquid Highlighter (ACTS 23753)

			With Talc	With SOLESPHERE	With SOLESPHERE and Cornstarch
Phase	Trade Name	INCI Name	wt (%)	wt (%)	wt (%)
A		Water	62	62	62
B	Xicare 1305	Ammonium Styrene /MA Copolymer Ethanol Amide	2	2	2
	Tween 80	Polysorbate 80	2	2	2
C	Pearlflake Yellow	Bismuth Oxychloride (CI 77163), Iron Oxides (CI 77492), Isododecane, Copernica Cerifera (Carnauba) Wax, Butyrospermum Parkii	1.25	1.25	1.25
	Pearlflake Bronze	Bismuth Oxychloride (CI 77163), Iron Oxides (CI 77492), Isododecane, Copernica Cerifera (Carnauba) Wax, Butyrospermum Parkii	0.5	0.5	0.5
	Pearlflake White	Bismuth Oxychloride (CI 77163), Titanium Dioxide (CI 77891), Isododecane, Copernica Cerifera (Carnauba) Wax, Butyrospermum Parkii (Shea) Butter	1	1	1
	ArcoPearl Pure 1060	Mica, Titanium Dioxide (CI 77891), Iron Oxides (CI 77491)	1	1	1
	ArcoPearl Pure 1060SR	Mica, Titanium Dioxide (CI 77891), Iron Oxides (CI 77491)	1	1	1
	ArcoPearl Sparkle 400	Synthetic Fluorophlogopite, Titanium Dioxide (CI 77891), Tin Oxide	0.75	0.75	0.75
	Mearimica SV	Mica, Lauroyl Lysine	0.5	0.5	0.5
D	Zemea	Propanediol	5	5	5
	Siligel	Acrylates Copolymer	0.5	0.5	0.5
E	C'Ester MCT	Caprylic/Capric Triglyceride	10	10	10
	Crodamol STS	PPG-3 Benzyl Ether Myristate	5	5	5
	Crodafos CSA	Cetearyl Alcohol, Ceteth-20 Phosphate, Dicapryl Phosphate	3	3	3
	Cetearyl Alcohol	Cetearyl Alcohol	1	1	1
	Natrogem EW	Glyceryl Stearate, Polyglyceryl-6 Palmitate/ Succinate, Cetearyl Alcohol	1	1	1
F		Talc	2	2	2
	SOLESPHERE H-121	Silica		2	1
		Cornstarch		0	1

Liquid Blush (ACTS 23755)

			With Talc	With SOLESPHERE
Phase	Trade Name	INCI Name	wt (%)	wt (%)
A		Water	62.15	62.15
B	Xicare 1305	Ammonium Styrene /MA Copolymer Ethanol Amide	2	2
	Tween 80	Polysorbate 80	2	2
C	Titanium Dioxide	Titanium Dioxide	4	4
	Red Iron Oxide	Iron Oxides	1.05	1.05
	Yellow Iron Oxide	Iron Oxides	1.2	1.2
	Black Iron Oxide	Iron Oxides	0.1	0.1
D	Zemea	Propanediol	5	5
	Siligel	Xanthan Gum, Lecithin, Sclerotium Gum, Pullulan	0.5	0.5
E	Crodamol STS	PPG-3 Benzyl Ether Myristate	5	5
	C'Ester MCT	Caprylic/Capric Triglyceride	10	10
	Cetearyl Alcohol	Cetearyl Alcohol	1	1
	Natrogem EW	Glyceryl Stearate, Polyglyceryl-6 Palmitate/Succinate, Cetearyl Alcohol	1	1
	Crodafos CS20A MBAL	Cetearyl Alcohol, Ceteth-20 Phosphate, Dicapryl Phosphate	3	3
F		Talc	2	
	SOLESPHERE H-121	Silica		2

Formulations available at resifasolesphere.com

Pressed Powders

- Enhances alternatives such as talc
- Replaces talc when formulated properly

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Pressed Cosmetics Formulas

Pressed Powder ACTS 24084

Phase	Trade Name	INCI Name	wt (%)
A	C'Ester MCT	Caprylic/Capric Triglyceride	45.45
	Glycerin	Glycerin	4.55
	E-3200 Chromium Oxide Green	Chromium Oxide Green	1.82
	Alegrace Aurous B 21/11-1 Yellow Gold	Silica, Iron Oxides, Aluminum Powder	0.91
	Black Iron Oxides	Iron Oxides	0.45
	Oil Dispersible Titanium Dioxide	Titanium Dioxide	1.36
B	Naturesoft 860S	Oryza Sativa (Rice) Bran Wax	2.73
	SOLESPHERE H-51	Silica	33.64
	SOLESPHERE NP-100	Silica	9.09

Pressed Powder ACTS 24085

Phase	Trade Name	INCI Name	wt (%)
A	C'Ester MCT	Caprylic/Capric Triglyceride	30.30
	Petrolatum	Petrolatum	25.97
	E-3200 Chromium Oxide Green	Chromium Oxide Green	4.33
	Oil Dispersible Titanium Oxide	Titanium Dioxide	4.33
	Black Iron Oxide	Iron Oxides	0.43
B	SOLESPHERE H-33	Silica	25.97
	SOLESPHERE NP-100	Silica	8.66

Summary

- SOLESPHERE silica is a very good, natural alternative for talc in cosmetic and skincare applications.
- It provides similar benefits as talc and more.
- SOLESPHERE H-121 and NP-30 are commonly used as talc replacements.
- Typically, 2% loading of SOLESPHERE silica is needed for liquids and dry powder. Pressed powder formulations may vary, as they are not drop-in replacements.
- SOLESPHERE silica is environmentally friendly and safe to use.

For more information, please visit resifasolesphere.com