



Cosmetic Microspheres

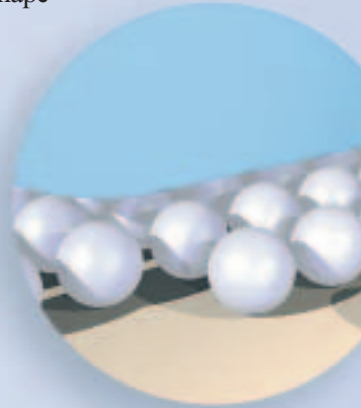
**For a silky smoothness that
only feels expensive**

3M™ Cosmetic Microspheres are semi-transparent, micron-sized ceramic particles that can be used as fillers/texture enhancers for a variety of cosmetic formulations, including lipsticks, pressed and loose powders, mascara, hand lotions and more. Their spherical shape can give cosmetic formulations a silky-soft, premium feel—while helping to provide more consistent processing.

3M cosmetic microspheres offer a number of performance and cost advantages over other premium fillers, such as boron nitride, PMMA, spherical silica and nylon microspheres:

- “Ball-bearing” effect creates silky, premium feel
- Enhances consistency of applied cosmetics
 - Non-absorbent...won’t dry out formulations
 - Lower cost-in-use, compared to many conventional fillers
 - “Soft focus” effect
 - Non-toxic

3M cosmetic microspheres can be combined with other fillers to achieve a number of desired properties. For example, combining 3M microspheres with boron nitride could produce a formulation that offers both a smoother, softer feel and improved skin adhesion.



A versatile new technology that gives you more options...

The nonporous nature of 3M™ Cosmetic Microspheres minimizes their interaction with other formulation ingredients...allowing maximum loadings with minimized viscosity increase. And they are insoluble in virtually any formulation, to help maintain the integrity of your formulation (e.g. less oil absorption).

Because of their uniform, spherical shape, 3M cosmetic microspheres offer improved glide, slip and omnidirectional spreadability. Their high bulk density levels permit the addition of the filler pigments at significant levels with minimal viscosity increase.

As a filler, 3M cosmetic microspheres are essentially “invisible.” This feature is particularly useful in formulating deep color shades, in which the chalky, whitening effect of many common ingredients is a disadvantage. This “invisibility” also allows for use of the material at higher loading levels.

3M cosmetic microspheres are inert, both chemically and physically, so they do not react with other components in a formulation. And they offer excellent processability.



...and adds more value to your formulations



Lipsticks

Unlike many conventional fillers, 3M™ Cosmetic Microspheres absorb very little oil. They can help eliminate brittleness and crumbling as well as sweating and drooping of the poured lipsticks. 3M cosmetic microspheres enable smoother, creamier formulations that apply easily.

Cream Powders

When formulating cream powder systems, particularly those having no volatile solvent, the objective is to maximize the pigment load. This maximization can be obtained through the utilization of pigments and fillers that wet well and have the lowest possible oil absorption. Materials used should have good slip to augment the “powdery” tactile impression.

The low oil absorption of 3M cosmetic microspheres helps them achieve higher filler loads, while offering a number of other important advantages. For example, formulations containing 3M cosmetic microspheres provide a smooth feel with good spreadability and less drag than some conventional fillers. And their low melt viscosity helps them flow freely, allowing the use of a simple gravity fill—eliminating the need to vibrate or reheat the filled pans.

Eye Shadow

Formulations containing 3M cosmetic microspheres provide a softer, smoother skin feel and greater “slip” than most conventional fillers. And, compared to similar formulations employing a boron nitride filler, those utilizing 3M microspheres are typically less expensive...even when twice the volume of filler is used.

Enhance your products with soft focus effect

Compared to conventional fillers such as PMMAs and silicas, 3M cosmetic microspheres offer an excellent balance of Total and Scattered Light Transmission properties. Essentially, these are measurements in the cosmetic industry of a material’s ability to optically blur skin lines and wrinkles, without creating a mask-like appearance.

3M Resources

3M™ Cosmetic Microspheres are available globally in commercial quantities. For additional information, please contact your local 3M representative, or call 800-810-8513.

United States

3M Specialty Materials
3M Center, Building 223-6S-04
St. Paul, MN 55144-1000
800 810 8513

3M Canada

Specialty Materials
P.O. Box 5757
London, Ontario
N6A 4T1
800 364 3577

Mexico

3M Mexico, S.A. de C.V.
Avenida Santa Fe #55
Colonia Santa Fe
Delegación Alvaro Obregón
01210 Mexico, D.F.
52 55 5270 0400

Brazil

3M do Brazil Ltda
Via Anhanguera, Km 110
Caixa Posta 123
CEP 13001-970 Campinas
Sao Paulo, Brazil
55 19 3838 7331

Chile

3M Chile S.A.
Av. Santa Isabel # 1001
Santiago, Chile
56 2 410 3000

3M Argentina S.A.C.I.F.I.A.

Los Arboles 842
1686 - Hurlingham
Provincia de Buenos Aires
Argentina
54 11 4469 8200
54 11 4469 8318 (Fax)

Europe

3M Specialty Materials
3M Belgium N. V.
Haven 1005, Canadastraat 11
B-2070 Zwijndrecht
32 3 250 7511

Sumitomo 3M Limited

33-1, Tamagawadai 2-chome
Setagaya-ku, Tokyo
158-8583 Japan
813 3709 8250

Taiwan

3M Taiwan Ltd.
13th Floor, Lotus Bldg. 136
Section 3, Jen Ai Rd.
Taipei, 106, Taiwan, R.O.C.
Taiwan
886 2 2704 9011

Singapore

3M Singapore Pte. Ltd.
9, Tagore Lane
Singapore 787472
Singapore
65 454 8611

China

3M China Ltd.
10/F New Town Mansion
55 Loushanguan Road
Shanghai 200336, P.R. China
86 21 62753535

Malaysia

3M Malaysia Sdn. Berhad
Bangunan 3M,
6, Persiaran Tropicana,
47410 Petaling Jaya,
Selangor, Malaysia
60 3 706 2888

Birla 3M Limited Bangalore

Raheja Paramount,
138, Residency Road,
Bangalore 560 025
India
91 80 223 1414
91 80 223 1450 (Fax)

Korea

3M Korea Ltd.
22nd Floor Daehan
Investment Trust Bldg.
27-3 Yoido-dong
Yongdungpo-ku
Seoul 150-010, Korea
822 3771 4114

Philippines

3M Philippines, Inc.
PCBank Tower 2-18th Floor
Makati Avenue
Makati City 1200
Philippines
603 2 813 3781

Thailand Limited

12th Floor, Serm-Mitr Tower
159 Asoke Road (Sukhumvit 21)
Bangkok 10110
Thailand
662 260 8577
662 261 7535(Fax)

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3M Specialty Materials

3M Center, Building 223-6S-04
St. Paul, MN 55144-1000

www.3m.com/cosmeticsolutions

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