

# CM 111

## Cosmetic Microspheres

**PRODUCT:** 3M™ CM 111

**COMPOSITION:** Magnesium silicate

**SHAPE:** Spherical

**COLOR:** White

**PARTICLE SIZE:**

90 <sup>th</sup> percentile	50 <sup>th</sup> percentile	10 <sup>th</sup> percentile
11 microns	5 microns	2 microns

**SURFACE AREA:** 3.3 m<sup>2</sup>/g

**CAS#:** 1343-88-0

**EINECS#:** 215-681-1

**APPROVED FOR:** USA, EU, Japan

### treatment characteristics

CM 111 is a spherical magnesium silicate particle manufactured synthetically by 3M™ using high temperature manufacturing technology. Cardre Inc. is 3M's exclusive distributor of this unique material in the United States, and we offer these particles further enhanced with our own pigment technologies throughout the world via our worldwide distribution network.

The chemically inert spherical filler provides "ball bearing effect" smoothness and improved spreading to cosmetic applications. The particle size is consistent and narrow with the majority of the particles at 5 microns. CM 111 offers the low surface area, improved slip, and soft feel of high end spherical particles, but even with additional surface treatments it costs less than other spherical fillers available to the industry.

The CM 111 particles have low oil absorption and are not susceptible to graying associated

with some micas and talcs. The spheres function as an "invisible" filler useful in formulating deep shades where other fillers can cause a chalky whitening effect. In dispersed systems, the low oil absorption permits the incorporation of significant levels of the filler without initial or long-term viscosity increases.

Cardre has further enhanced the functionality of the CM 111 particles with our own surface treatment technologies including the following:

**FHC (*perfluoropolymethylisopropyl ether*)** lipophobic, hydrophobic treatment that imparts a velvety feel to the spherical particle; provides exceptional wear characteristics.

**MM (*metal soap*)** treatment offers improved skin adhesion, compressibility and hydrophobicity.

**AS (*alkyl silane*)** treatment yields a highly hydrophobic particle that demonstrates excellent wetting characteristics in oils, improved stability in emulsion systems, and low oil absorption.

**LL (*lauroyl lysine*)** treatment affordably offers natural softness, and a pH similar to that of the skin.

### cardre family of products

Cardre offers a full line of surface treated inorganic pigments and fillers, inorganic sunscreens, spherical polymer systems, and dispersions. Please call or write for a full brochure and product samples.

**cardre inc.**  
pigment technologies

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