



FRAGRANCE MICROCAPSULE MATERIAL

Fragrance microcapsule material, also known as long-lasting fragrance, releases scent steadily over six months. Various scents are available.



1. Introduction

Through the microcapsule technology , fragrance oil is sealed in multi-layer microcapsules gradually releasing scent over six months subjected to pressure、 friction、 heat or self-volatilization.

2. Product Description

A. Standard Scents

- a. Herbal Scents: Rose, Lavender, Jasmine, Eucalyptus, Citronella, Mint
- b. Fruit Scents: Strawberry, Lemon, Orange, Apple, Grape
- c. Others: Cypress, Sandalwood, Camphor

B. Make-to-order Scents

- a. Herbal Scents: Vanilla 、 Chamomile 、 Gillyflower 、 Tulip 、 Pine 、 Orchid 、 White ginger lily。
- b. Fruit Scents: Watermelon 、 Cherry 、 Muskmelon 、 Banana 、 Pineapple 。
- c. Others: Honey 、 Cinnamon 、 Coffee 。
- d. Please visit our website for the most updated information.

C. Custom Scented Microcapsules: OEM service for scented microcapsules is available. Just provide us any pure solvent base fragrance oil you like.

3. Applications

A. Available Products & Applicability

Available Products Applicability	Slurry	Microencapsulated powder
Ink/Paint (Solvent)	×	○
Ink/Paint(Aqueous)	○	△
Plastic Injection/Extrusion	×	△

B. Scented Slurry

a. Product Description

- Scented slurry is microencapsulated aqueous dispersion with good dispersal in water, suitable for water based paint. The average particle size of the slurry is 3-10µm.
- Its solid content is difficult to be measured due to the volatilizing property of fragrance.

b. Properties

- Dispersed easily in water, that means the product is suitable for aqueous based paint/ink and screen printing.

c. Recommended Concentrations

- ▶ For aqueous based ink/paint 5%~30% w/w
 (For best results, about 25% concentration is required for 20µm film thickness)

d. General Recommendations:

- ▶ Avoid strong smell ink/paint which may interfere the scent.
- ▶ Slurry may get clotted during storage. Heating the slurry to 45°C in a double boiler to make it disperse.

C. Scented Microencapsulated Powder

a. Product Description

- ▶ This powder is a complex formula. Its moisture content is less than 3% and is suitable for solvent/aqueous based ink/paint and plastic injection/extrusion. The average particle size is 3-10µm.

b. Properties

- ▶ The product is encapsulated with Melamine shells, with very good solvent resistance and dispersiveness, suitable for ink/paint and plastic injection/extrusion.

c. Recommended Concentrations

- ▶ For solvent/aqueous based ink/paint 5%~30% w/w
 (For best results, about 25% concentration is required for 20µm film thickness)
- ▶ For plastic injection/extrusion 1% ~5% w/w
 (For best results, about 2% concentration is required for 0.2cm plastic thickness)

d. General Recommendations:

- ▶ For injection/extrusion, using plastic needed to be processed at low temperatures such as EVA, PU, and so on.
- ▶ To avoid solvents inbreaking core fragrance through permeation, solvent based scented paint/ink should be used right after been prepared.

D. Scented Dye bath

a. Product Description

- ▶ Scented dye bath comprises of scented slurry and silicon (high efficiency adhesives) , suitable for dipping and spraying.

b. Properties

- ▶ Function as fragrance enhancement, softener and bactericide.
- ▶ Durable over 10 washes

c. Recommended Concentrations

Pre-diluted 20~50 times before use. Enhance concentration for stronger scent.

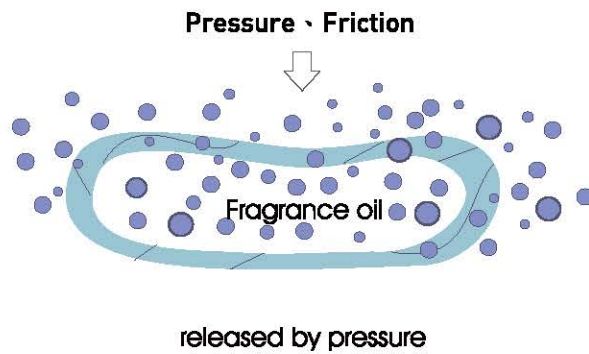
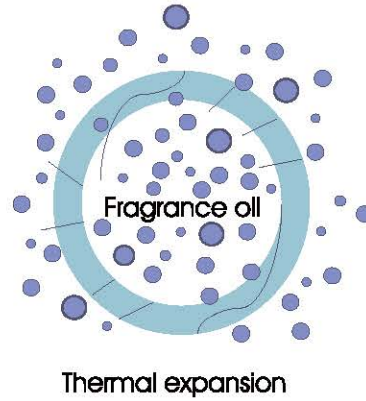
d. General Recommendations:

- ▶ Avoid prolonged processing time which may affect the scent properties.
- ▶ The recommended processing temperature is $\leq 140^{\circ}\text{C}$.



4. Miscellaneous

A. How do the scented microcapsules work?



5. Others

- A. **Storage:** Stored at room temperature. Keep sealed in a dry place, away from direct sunlight. Best within twelve months if stored correctly.
- B. **Certifications:** EN-71 & RoHS passed.
- C. **Some of fragrance oils do not pass IFRA.** Please refer to our website for more details.