

## Tospearl™ 145FL

Tospearl\* 145FL

### Description

Tospearl® 120A, 130A, 145A and 2000B resins are spherical silicone resins available in 2.0, 3.0, 4.5 and 6.0 micron particle sizes respectively. These unique materials offer excellent water repellency, lubricity, and heat resistance and have been found to offer substantial benefits when used in cosmetic products.

### INCI NAME

Polymethylsilsesquioxane

### Key Features and Benefits

- Excellent lubricity
- Imparts soft, smooth, silky feel
- Prevents pigment and powder agglomeration

### Typical Physical Properties

| Property                   | Tospearl®120A               | Tospearl®130A               | Tospearl®145A               | Tospearl®2000B              |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Appearance                 | Spherical fine white powder | Spherical fine white powder | Spherical fine white powder | Spherical fine white powder |
| Average particle size (µm) | 2.0                         | 3.0                         | 4.5                         | 6.0                         |

|  |            |            |            |            |
|--|------------|------------|------------|------------|
| Water content<br>(105°C, 60 min)           | 1% or less | 1% or less | 1% or less | 5% or less |
| pH*  | 7.0        | 7.0        | 7.0        | 7.0        |
| Specific gravity<br>(25°C)                 | 1.32       | 1.32       | 1.32       | 1.43       |
| Bulk density                               | 0.35       | 0.36       | 0.43       | 0.46       |
| Specific surface<br>area m <sup>2</sup> /g | 30         | 20         | 20         | 20-30      |
| Linseed oil<br>absorption rate<br>mL/100g  | 75         | 62         | 58         | 60         |

\*2% dispersed in a solution of Methanol: Water = 1:1

### Potential Applications

- Foundation
- Powder
- Cream
- Lipstick
- Eye Shadow

### Patent Status

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### Product Safety, Handling and Storage

The warranty period for Tospearl® 120A, 130A and 145A resin is 6 months from date of shipment from Momentive Performance Materials if stored in the original unopened container at 25°C (77°F). The warranty period for Tospearl® 2000B resin is 12 months from date of shipment from Momentive Performance Materials if stored in the original unopened container at 25°C (77°F).

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## Processing Recommendations

### FORMULATING WITH TOSPEARL RESINS

The following formulations are provided for your use in assessing Tospearl® resins.

#### POWDER EYE SHADOW WITH SUPERIOR FEEL

| INGREDIENTS                               | PARTS/WT(%) |
|---|-------------|
| <b>PART A</b>                             |             |
| Mica (and) Titanium Dioxide               | 6.4         |
| Mica                                      | 32.0        |
| Iron Oxides                               | 3.0         |
| Ultramarines                              | 12.7        |
| Ferric Ammonium Ferrocyanide              | 18.9        |
| <b>PART B</b>                             |             |
| Polymethylsilsesquioxane (Tospearl® 130A) | 19.5        |
| <b>PART C</b>                             |             |
| Dimethicone (SF96-5)                      | 2.5         |
| Squalene                                  | 2.5         |
| Petrolatum                                | 2.5         |
| Fragrance                                 | q.s.        |
| Preservative                              | q.s.        |

#### PROCEDURE

1. Mix pigments in Part A except titanium dioxide and mica.
2. Add the titanium dioxide, mica, Part C (except fragrance and preservative), and Part B to Part A with high shear mixing. Add the fragrance and preservative with the same high shear mixing.
3. Press into suitable containers.

#### POWDER FOUNDATION WITH SMOOTH, SILKY FEEL

| <b>INGREDIENTS</b>                        | <b>PARTS/WT(%)</b> |
|---|--------------------|
| <b>PART A</b>                             |                    |
| Talc                                      | 6.6                |
| Titanium Dioxide                          | 19.2               |
| Mica (and) Titanium Dioxide               | 4.8                |
| Iron Oxides                               | 11.2               |
| Zinc Oxide                                | 6.2                |
| Barium Sulfate                            | 13.7               |
| <b>PART B</b>                             |                    |
| Dimethicone (SF96-5)                      | 5.5                |
| Lanolin                                   | 8.2                |
| Petrolatum                                | 1.4                |
| Mineral Oil                               | 1.4                |
| Isopropyl Myristate                       | 1.4                |
| <b>PART C</b>                             |                    |
| Polymethylsilsesquioxane (Tospearl® 130A) | 20.4               |
| <b>PART D</b>                             |                    |
| Fragrance                                 | q.s.               |
| Preservative                              | q.s.               |

## PROCEDURE

1. Mill all of the pigments in Part A together.
2. Add Part B, Part C, and Part D to Part A with high shear mixing.
3. Press into suitable containers.

## Limitations

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## Availability

They are available in the following container sizes and net weights:

| <b>Product</b> | <b>1K</b> | <b>10K</b> |
|----------------|-----------|------------|
| Tospearl®      | 1kg       | 10kg       |

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