

## Tospearl\* 145FL

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#### 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 (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 (25°C)	1.32	1.32	1.32	1.43
Bulk density	0.35	0.36	0.43	0.46

Specific surface area m <sup>2</sup> /g	30	20	20	20-30
Linseed oil absorption rate 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**

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

**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).

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

**Processing Recommendations**

**FORMULATING WITH TOSPEARL RESINS**

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

**POWDER EYE SHADOW WITH SUPERIOR FEEL**

<b>INGREDIENTS</b>	<b>PARTS/WT(%)</b>
<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**

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

**Availability**

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

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

**Contact Information**

For product prices, availability, or order placement, contact our customer service at

[Momentive.com/CustomerService/](http://Momentive.com/CustomerService/)

For literature and technical assistance, visit our website at: [www.momentive.com](http://www.momentive.com)

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