

## 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 (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

Standard copy to come

### 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).

Standard copy to come

## 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

Standard copy to come

## 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**

Email

[commercial.services@momentive.com](mailto:commercial.services@momentive.com)

**Telephone**

**Americas**

**Latin America**

**EMEAI- Europe, Middle East, Africa & India**

**ASIA PACIFIC**

+1 800 295 2392

**Brazil**

**Europe**

**China**

Toll free\*

+55 11 4534 9650

+390510924300

800 820 0202

+704 805 6946

Direct Number

Direct number

Toll free

Direct Number

+86 21 3860 4892

Direct number

\*All American countries

**Mexico**

**India, Middle East & Africa**

**Japan**

+52 55 2169 7670

+ 91 44 71212207

+81 3 5544 3111

Direct Number

Direct number\*

Direct number

**\*All Middle Eastern countries, Africa, India,**

**Korea**

+82 2 6201 4600

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

**DISCLAIMER:**

**THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR**

**GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER'S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.** Each user bears full responsibility for making its own determination as to the suitability of Supplier's materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier's products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

\*Tospearl™ ist ein Markenname der Momentive Performance Materials Inc.

The use of the "™" symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies. Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.