**SILSOFT* EAU MICROGEL**

**Description**

Silsoft EAU microgel is a cross-linked particle that has the ability to swell and de-swell and also to function as a unique structuring agent and emulsifier. It is comprised of a water swellable polyacrylic core that is bound by a proprietary silicone copolymer shell-like layer.

Silsoft EAU microgel’s pre-activated polyacrylate core swells quickly upon addition of water. When swollen, the increased size of the microgel particles creates a space-filling effect in formulations to form a cohesive gel network that helps stabilize oil droplets.

**INCI Name**

Polysilicone-34 (and) Isononyl Isononanoate (and) Water

**Key Features and Typical Benefits**

- Enhanced sensory experience and reduced drag when emulsifying with natural oils
- Wide textural space and fresh, light feel
- Excellent spreadability
- Stability over a wide range of pH levels
- Good dispersing power via shear-thinning aqueous emulsions
- Greatly reduced volatile oil levels
- Ease of brush application and color layering due to microgel network

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Silicone Solids, %</td>
<td>~ 50%</td>
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*Silsoft is a trademark of Momentive Performance Materials Inc.*
Viscosity at 25 °C (77 °F), mPas 15,000
Specific Gravity, at 25 °C (77 °F) 0.996
Density, lb./gal., avg. 0.87
Appearance Translucent gel with soft granules; clear to amber
Freezing Point, °C (°F) –22 °C

Typical properties are average data and are not to be used as or to develop specifications.

Potential Applications

Skin Care
Serums
Creams
Lotions
Fluid milks
Butters

Sun Care
Sunscreens
Daily wears

Color Cosmetics
BB and CC creams
Foundations
Concealers
Tinted moisturizers

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.

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