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>
</tr>
</thead>
<tbody>
<tr>
<td>Silicone Solids, %</td>
<td>~ 50%</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity at 25 °C (77 °F), mPas</td>
<td>15,000</td>
</tr>
<tr>
<td>Specific Gravity, at 25 °C (77 °F)</td>
<td>0.996</td>
</tr>
<tr>
<td>Density, lb./gal., avg.</td>
<td>0.87</td>
</tr>
<tr>
<td>Appearance</td>
<td>Translucent gel with soft granules; clear to amber</td>
</tr>
<tr>
<td>Freezing Point, °C (°F)</td>
<td>–22 °C</td>
</tr>
</tbody>
</table>

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
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