

## 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

Property	Value
Silicone Solids, %	~ 50%

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

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### Limitations

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

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