

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

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

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 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.

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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