

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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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

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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.

Contact Information

Email

commercial.services@momentive.com

Telephone

Americas	Latin America	EMEAI- Europe, Middle East, Africa & India	ASIA PACIFIC
+1 800 295 2392 Toll free* +704 805 6946 Direct Number	Brazil +55 11 4534 9650 Direct Number	Europe +390510924300 Direct number	China 800 820 0202 Toll free +86 21 3860 4892 Direct number
All American countries	Mexico +52 55 2169 7670 Direct Number	India, Middle East & Africa + 91 44 71212207 Direct number	Japan +81 3 5544 3111 Direct number
		*All Middle Eastern countries, Africa, India,	Korea +82 2 6201 4600

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