



A woman with dark hair pulled back is applying mascara to her upper eyelashes. She is looking upwards and to the right. In her left hand, she holds a black smartphone. The background is a soft, neutral tone.

A BETTER WAY TO FORMULATE

VERSAGEL®

VERSAGEL® MC

LIGHT NON-STICKY GEL

Versagel technology is used in thousands of cosmetic, pharmaceutical and personal care products around the world. Our innovative patented system for thickening and gelling hydrocarbon materials offers an infinite number of customized rheological properties.

- Clear, colorless (does not discolor with age), hydrophobic, thermally reversible and without syneresis.
- Creates a film barrier for added moisturization, delivers superior stabilization and suspension properties.
- Available in multiple viscosity ranges and compatible with many common ingredients.
- Easier and safer than gels made using metal stearates or fumed silica.
- Provides enhanced fragrance retention and waterproofing properties.

For more than 100 years, Penreco® has specialized in niche product blending to meet customer specific requirements. If you are interested in finding out more about the many attributes of our gelled technology, we can provide supporting clinical studies. Please contact your Penreco sales representative and our technical experts will be happy to find a solution that's right for you.

Let us show you a better way to formulate.



penreco®

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To request a sample, visit penreco.com.

VERSAGEL® MC

LIGHT NON-STICKY GEL

The Versagel MC products are isohexadecane (C16 isoparaffin) as the base. The gelled isohexadecane is known to have great silicone compatibility, slip and shine. As an emollient it can help create a creamy, thick formula, with rich texture and a light non-sticky feel on the skin. In formulations it provides good cleansing properties which is ideal in buffing oils, face primers and gel cleansers.

APPLICATIONS

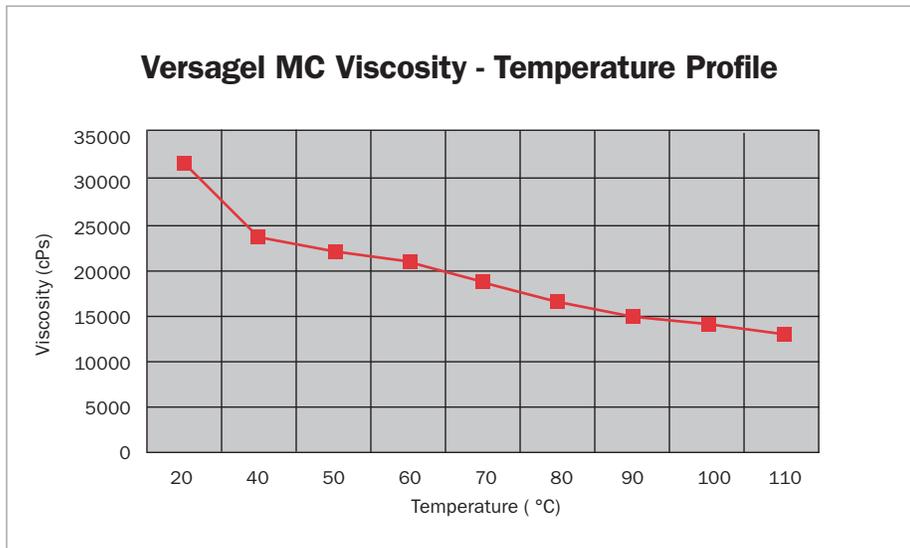
- Color Cosmetics: mascara, primer
- Skin Care: lotions, moisturizers, massage oils, cleansers
- Sun care: suntan oils, sunblock/sunscreen

TYPICAL PROPERTIES

| | VISCOSITY @ 25 °C D2983 (cPs) | SPECIFIC GRAVITY @ 25/25 °C D4052 | SAYBOLT COLOR D156 | FLASH POINT °C ASTM D92 | POLARITY LOG P |
|------------------------------------|----------------------------------|--------------------------------------|-----------------------|----------------------------|-------------------|
| VERSAGEL MC (Isohexadecane) | | | | | |
| MC 750 | 35,000 - 53,000 | 0.7856 | +30 | >95 | 8.2 |
| MC 1600 | 50,000 - 70,000 | 0.7983 | +29 | >95 | 8.2 |

International Nomenclature of Cosmetic Ingredients (INCI):

Isohexadecane (and) Ethylene/Propylene/Styrene Copolymer (and) Butylene/Ethylene/Styrene Copolymer



Like the other Versagel products, Versagel MC is shear thinning. However, the Versagel MC products are unique in that they exhibit minimal “stringiness” due to the short hydrocarbon chain structure of the base oil. This characteristic is desirable in certain applications where elasticity needs to be minimized. The graph shows how viscosity decreases as the temperature increases for Versagel MC 750.