



## Integrity Ingredients Corporation

# IntegriGEL O/W-MO-“PLUS”

**INCI Name:** Sodium Polyacrylate, Mineral Oil (paraffinum Liquidum), Trideceth-6

### Product Description:

**IntegriGEL O/W-MO-“PLUS”** is a polymer developed specifically for cosmetic and personal care products. It is an anionic acrylic polymer dispersed in medicinal grade white oil. It is typically used to thicken aqueous solutions and to formulate stable O/W emulsions.

### Product Characteristics:

**IntegriGEL O/W-MO-“PLUS”** is a **ready to use liquid form** polymer which swells immediately in water, at room temperature, **without any neutralization**.

Appearance	White Mobile Liquid
Odor	Slightly acrylic
Active Content	57.5%*
Viscosity (as supplied)	400 – 1,400 cps (Brookfield LVT, spindle #3, 30 rpm)*
Viscosity (1% solution, pH 6)	7,000 – 13,000 cps (Brookfield RVT spindle #6, 50 rpm)*
pH (1% solution)	5 - 7*
Shelf Life	12 months

\* indicative values

## Properties

### Rheological profile

**IntegriGEL O/W-MO-“PLUS”** is a thickening agent for aqueous base formulations. Products are Pseudoplastic and non thixotropic. Viscosity decreases with shear stress (shear-thinning flow) and comes back instantly to its initial value (not time dependant).

### Effect of Temperature

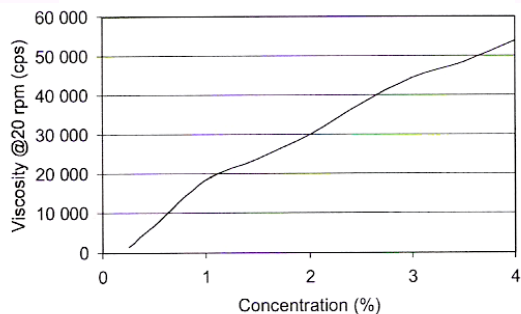
Solutions of **IntegriGEL O/W-MO-“PLUS”** do not show significant changes in viscosity and stability at high temperature.

### Emulsifying and stabilizing agent

**IntegriGEL O/W-MO-“PLUS”** allows the formulation of highly stable O/W emulsions regardless of the oil phase. The addition of other emulsifiers depends on the final requested texture.

**IntegriGEL O/W-MO-“PLUS”** helps to stabilize suspensions (sunscreens).

## Effect of Concentration



### Cosmetic Applications

**IntegriGEL O/W-MO-“PLUS”** is a thickening and stabilizing agent for O/W emulsions and cream like gels.

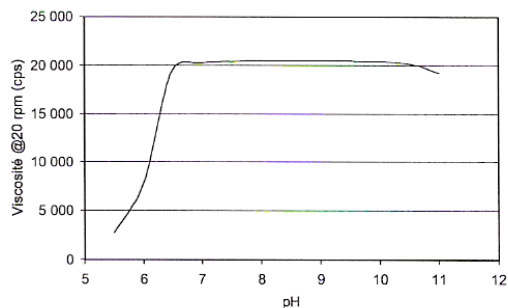
This polymer gives light and melting textures, with non sticky and non greasy after-feel.

It's particular rheology profile helps spreading high viscous products. It is used in both hair care and skin care (body and face) products.

**IntegriGEL O/W-MO-“PLUS”** is recommended in formulations of O/W emulsions and cream-like gels. Concentration use depends on required final viscosity (0.2 to 4%).

**IntegriGEL O/W-MO-“PLUS”** is characterized by a high versatility in use: it is supplied as a ready to use liquid form (no neutralization, addition at any stage of manufacturing process).

## Effect of pH 1% **IntegriGEL O/W-MO-“PLUS”**



### Toxicological Data

Eye irritation potential (5% solution): non irritant

Skin irritation potential (5% solution): very slightly irritant

### Storage

**IntegriGEL O/W-MO-“PLUS”** should be stored at a temperature between 10°C and 40°C. If by accident the product freezes, thaw out by placing the drum in warm water while mixing thoroughly.

Store in original packaging or in any other glass, stainless steel, plastic or epoxy-lined container. Do not store in mild steel, copper or aluminum containers.

### Packaging

60 kg drums

Integrity Ingredients Corporation \* P.O. Box 5040 \* Playa del Rey, CA 90296

Phone (310)782-0282 \* Fax (310)782-0283

email [info@integrityingredientscorp.com](mailto:info@integrityingredientscorp.com) \* [www.integrityingredientscorp.com](http://www.integrityingredientscorp.com)

The information presented in this bulletin is given in good faith and is true and accurate to the best of our knowledge. No warranty or guarantee is expressed or implied regarding the accuracy of such data. It is the user's responsibility to determine the suitability for his own use of the information presented. No warranty or freedom is given regarding industrial property rights of Integrity Ingredients Corporation or third parties.