



Integrity Ingredients Corporation

IntegriGEL O/W-MO-“Cationic”

INCI Name: Polyquaternium 37, Mineral Oil (Parraffinum Liquidum), Trideceth-6

Product Description:

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

Product Characteristics:

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

Appearance	White Mobile Liquid
Odor	Slightly acrylic
Nature	Non aqueous liquid dispersion of polymer
Active Content	53%*
Viscosity (as supplied)	200 - 3,000 cps (Brookfield LVT, spindle #3, 30 rpm)*
Viscosity (2% solution, pH 6)	25,000 – 45,000 cps (Brookfield RVT spindle #6, 20 rpm)*
pH (1% solution)	3.5 - 5*
Shelf Life	12 months

* indicative values

Properties

Rheological profile

IntegriGEL O/W-MO-“Cationic” solutions are pseudoplastic and non thixotropic. The gel structure is easily broken-down by shear stress and comes back instantly to its initial value.

Emulsifying agent

IntegriGEL O/W-MO-“Cationic” allows for formulation of highly stable suspensions and O/W emulsions regardless of the oil type and HLB vale. There is no need for heating in production. Emulsions can be made at room temperature.

Stablizing/Suspending agent

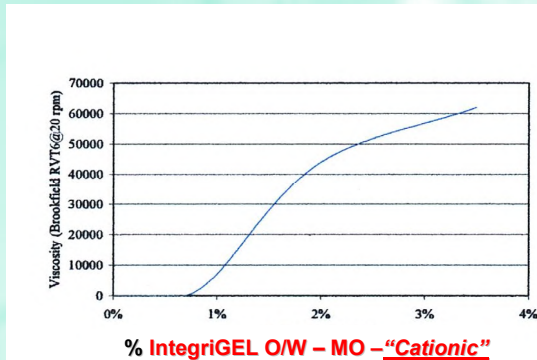
IntegriGEL O/W-MO-“Cationic” stablizes:

- Emulsions with cationic ingredients
- Suspension of solid particles

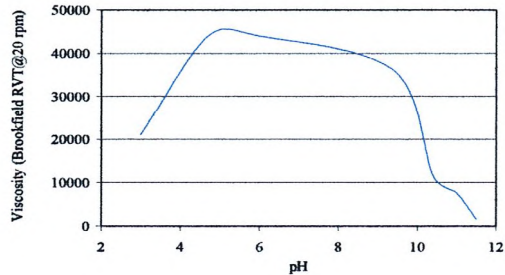


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Effect of Concentration



Effect of pH 2% IntegriGEL O/W-MO-"Cationic"



Cosmetic Applications

IntegriGEL O/W-MO-"Cationic" allows to formulate skin care and hair care products. Formulations are unctuous with a non greasy and non sticky after feel. Rub-in and spreadability of highly thick and compact crease are easier and more uniform.

IntegriGEL O/W-MO-"Cationic" 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 the process).

Concentration use depends on required final viscosity (**0.2 to 6%**).

The viscosity and stability of formulations made with **IntegriGEL O/W-MO-"Cationic"** are not influenced by high temperature.

Toxicological Data

See MSDS

Storage

IntegriGEL O/W-MO-"Cationic" 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
www.integrityingredientscorp.com

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