



Integrity Ingredients Corporation

IntegriGEL O/W-MO-“2-11pH”

INCI Name: Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer, Mineral Oil (Paraffinum Liquidum), Trideceth-6

Product Description:

IntegriGEL O/W-MO-“2-11pH” 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** and to stabilize O/W emulsions, **even at low pH**.

Product Characteristics:

IntegriGEL O/W-MO-“2-11pH” 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	57.5%*
Viscosity (as supplied)	< 3,500 cps (Brookfield LVT, spindle #3, 30 rpm)*
Viscosity (1% solution, pH 6)	4,000 – 8,000 cps (Brookfield RVT spindle #6, 20 rpm)*
pH (1% solution)	5 - 7*
Shelf Life	12 months

* indicative values

Properties

Rheological profile

IntegriGEL O/W-MO-“2-11pH” is a thickening agent for aqueous 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).

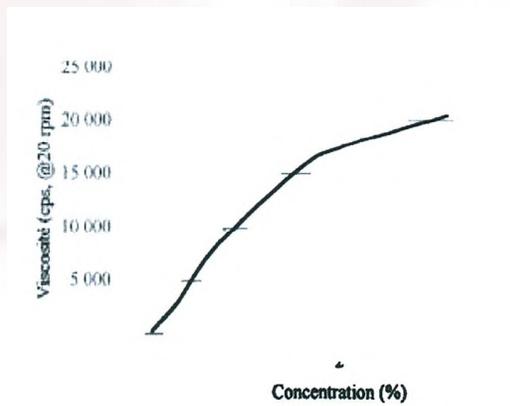
Effect of temperature

Solutions of **IntegriGEL O/W-MO-“2-11pH”** do not show significant changes in viscosity and stability at high temperature.

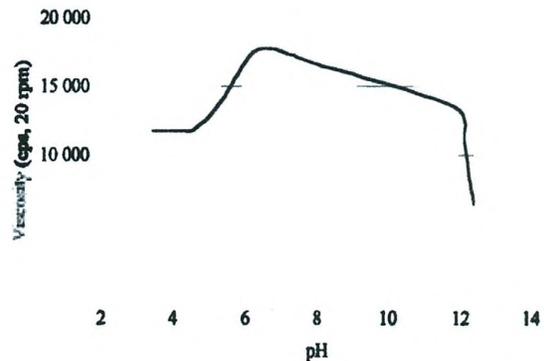
Emulsifying and stabilizing agent

IntegriGEL O/W-MO-“2-11pH” allows for formulation of highly stable suspensions and O/W emulsions in a **wide range of pH** (2 – 11)

Viscosity vs. Concentration



2% "2-11pH"



Cosmetic Applications

IntegriGEL O/W-MO-"2-11pH" is a thickening and stabilizing agent for O/W emulsions.

This polymer gives a **light and melting texture** with non stick and non greasy after-feel.

It's particular rheology profile helps spreading of high viscous products.

It is used in both **hair care and skin care** (body and face products).

IntegriGEL O/W-MO-"2-11pH" is recommended for low pH products.

Referring to it's chemical composition, **pH formulation adjustment is very easy**. This specificity gives a large flexibility in use at industrial scale.

Concentration use depends on required final viscosity (**0.3 to 6%**).

IntegriGEL O/W-MO-"2-11pH" is characterized by a **high versatility in use**, it is supplied in ready to use liquid form (no neutralization addition at any stage of the manufacturing process).

Toxicological Data

Eye irritation potential (5% solution): non irritant

Skin irritation potential (5% solution): non irritant

Storage

IntegriGEL O/W-MO-"2-11pH" 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

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