



## Integrity Ingredients Corporation

# IntegriGEL O/W “2-11pH” PWDR

**INCI Name:** Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer

### Product Description:

**IntegriGEL O/W “2-11pH” PWDR** is a polymer developed specifically for cosmetic and personal care products. It is an anionic acrylic polymer in powder form. It is typically used to **thicken** and to stabilize O/W emulsions, **even at low pH**.

### Product Characteristics:

**IntegriGEL O/W “2-11pH” PWDR** is a **ready to use in powder form**. The polymer swells immediately in water, at room temperature, **without any neutralization**. Gels and emulsions can be produced at room temperature.

Appearance	White free flowing powder
Odor	None
Active Content	> 85%*
Viscosity (1% solution)	15,000 – 30,000 cps (Brookfield RVT spindle #6, 20 rpm)*
pH (2% solution)	6 - 11*
Shelf Life	24 months

\* indicative values

## Properties

### Rheological profile

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

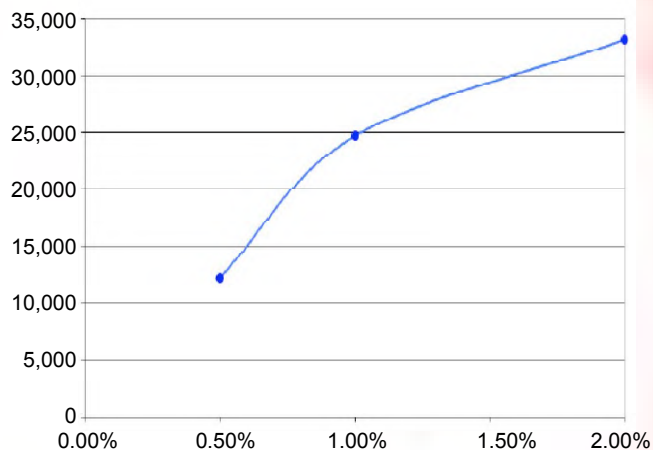
### Emulsifying and stabilizing agent

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

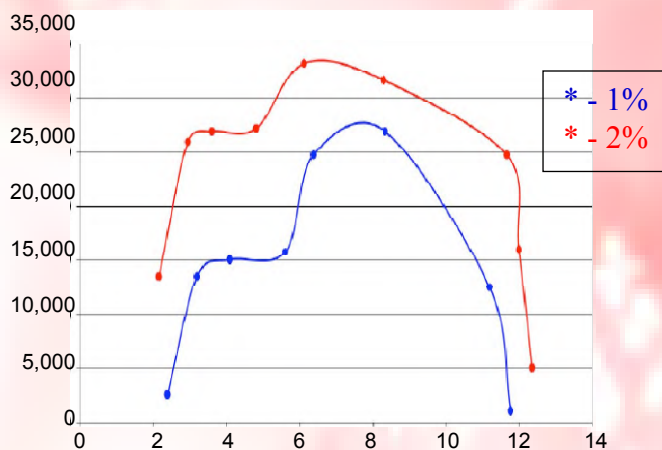


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Effect of Concentration



Effect of pH @ 1 and 2%  
IntegriGEL O/W "2-11pH" PWDR



## Cosmetic Applications

**IntegriGEL O/W "2-11pH" PWDR** 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 "2-11pH" PWDR** 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 "2-11pH" PWDR** 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 "2-11pH" PWDR** should be stored at a temperature between 10°C and 40°C.

**Packaging** - 25 kg bags

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