



# Integrity Ingredients Corporation

## IntegriGEL O/W SP “PLUS”

**INCI Name:** Sodium Polyacrylate

**Product Description:**

**IntegriGEL O/W SP “PLUS”** is an acrylic based polymer in powder form developed for cosmetic and personal care products. It is typically used to thicken aqueous solutions and to stabilize emulsions.

**Product Characteristics:**

**IntegriGEL O/W SP “PLUS”** is a **ready to use powder** with short dissolution time. The polymer swells immediately **without neutralization**. Gels and emulsions can be produced at room temperature.

Appearance	White Free Flowing Powder
Odor	None
Active Content	Min 88%
Viscosity (1% solution)	<b>28,000 – 38,000 cps</b> (Brookfield RVT spindle #6, 20 rpm)*
pH (1% solution)	5.5 – 7.0
Shelf Life	24 months

\* indicative values

### Properties

**Modifier of Rheology**

**IntegriGEL O/W SP “PLUS”** is a thickening agent for *aqueous* solutions. These solutions are pseudoplastic and non thixotropic. The gel structure is easily broken-down by shear and comes back to it's initial value.

**Effect of Temperature**

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

**Emulsifying agent**

**IntegriGEL O/W SP “PLUS”** allows the formulation of highly stable O/W emulsions regardless of the oil phase and the HLB value.

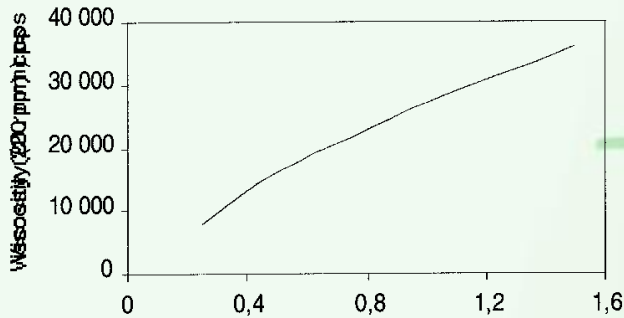
**Stabilizing agent**

**IntegriGEL O/W SP “PLUS”** is an effective agent for emulsion stabilization and stable suspension of solid particles.



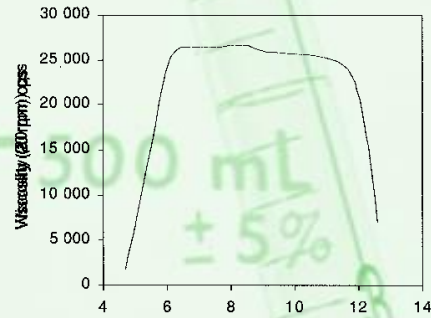
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Effect of Concentration



% IntegriGEL O/W SP "PLUS"

Effect of pH  
1% IntegriGEL O/W SP "PLUS"



## Cosmetic Applications

**IntegriGEL O/W SP "PLUS"** enables the formulation of unctuous, non greasy and non sticky products.

This polymer is pseudoplastic, therefore it makes for easier spreading of thick and compact creams.

**IntegriGEL O/W SP "PLUS"** is used in hair care products (conditioners, creams....) and skin care products (creams, lotions, make-up remover, sunscreen products...)

**IntegriGEL O/W SP "PLUS"** is easy to use:

- The powder is quickly dissolved in water or the aqueous phase.
- Emulsions can be made at any temperature.

## Toxicological Data

Eye irritation potential (10% solution): non irritant

Skin irritation potential (pure product): non irritant

## Storage

**IntegriGEL O/W SP "PLUS"** should be stored at a temperature between 0°C and 35°C in original packaging.

## Packaging

25 kg bags

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