



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 **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.

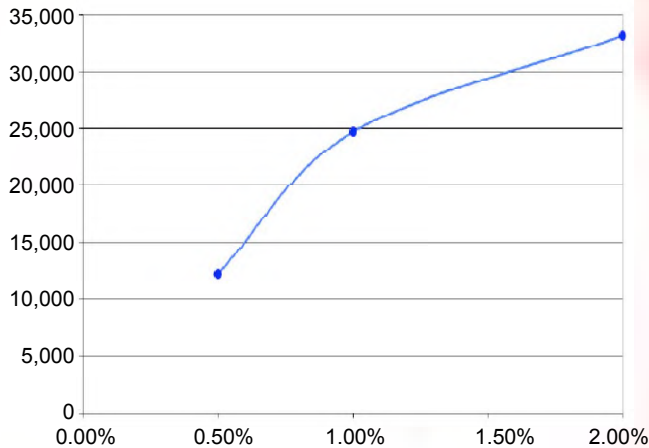
Emulsifying and stabilizing agent

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)

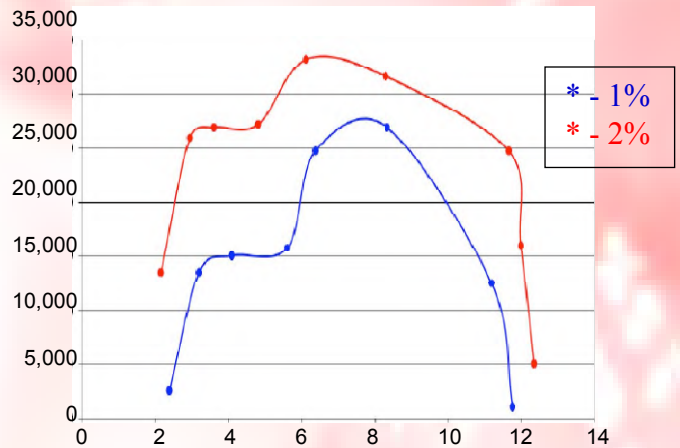


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Effect of Concentration



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 sticky 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 powder 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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