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Integrity Ingredients Corporation

“Where **Quality** and **Service** Meet”

IntegriGEL O/W-HP

INCI Name:

Sodium Polyacrylate (and) Hydrogenated Polydecene (and) Trideceth-6

Product Description:

IntegriGEL O/W-HP is a polymer developed specifically for cosmetic and personal care products. It is an anionic acrylic polymer dispersed in **Hydrogenated Polydecene**. It is typically used to thicken aqueous solutions and to formulate stable O/W emulsions.

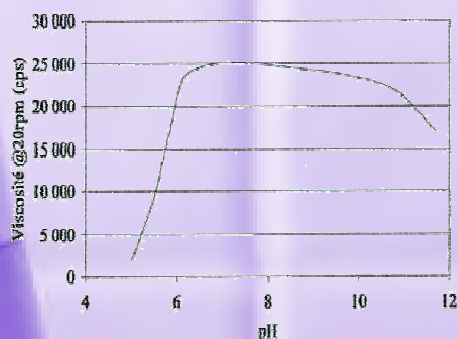
Product Characteristics:

IntegriGEL O/W-HP is a **ready to use liquid form** polymer which swells immediately in water, at room temperature, **without any neutralization**.

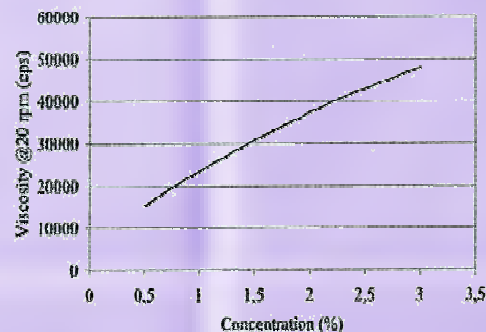
IntegriGEL O/W-HP gives light and melting textures with **non sticky** and **non greasy** after-feel.

“Product Advantages”

- ➔ **Higher Active Content** = More efficient at lower levels
- ➔ **Lower Product Viscosity** = Much easier to use
- ➔ **Lower Price** = More **cost savings** for you



Effect of pH 1% IntegriGEL O/W-HP



Effect of Concentration



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Product Characteristics:

Appearance	White Mobile Liquid
Odor	Slightly acrylic
Active Content	57.5%*
Viscosity (as supplied)	400 – 2,000 cps (Brookfield LVT, spindle #3, 30 rpm)
Viscosity (1% solution, pH 6)	7,000 – 13,000 cps (Brookfield RVT spindle #6, 50 rpm)
pH (1% solution)	5.0 – 7.0
Shelf Life	12 months

Properties

Rheological profile:

IntegriGEL O/W-HP is a thickening agent for aqueous base 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 HP** do not show significant changes in viscosity and stability at high temperature.

Emulsifying and stabilizing agent:

IntegriGEL O/W-HP allows the formulation of highly stable O/W emulsions regardless of the oil phase. The addition of other emulsifiers depends on the final requested texture.

IntegriGEL O/W HP helps to stabilize suspensions (sunscreens).

Cosmetic Applications:

IntegriGEL O/W-HP is a thickening and stabilizing agent for O/W emulsions. This polymer gives light and melting textures, with non sticky and non greasy after-feel. It's particular rheology profile helps spreading high viscous products. It is used in both hair care and skin care (body and face) products.

IntegriGEL O/W HP is recommended in formulations of O/W emulsions and cream-like gels. Concentration use depends on required final viscosity (0.2 to 4%).

IntegriGEL O/W-HP 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 manufacturing process).

Toxicological Data

Eye irritation potential (5% solution): non irritant

Skin irritation potential (5% solution): very slightly irritant

Packaging: 60 kg drums