



Integrity Ingredients Corporation

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

IntegriGEL P37 - PG

INCI Name:

INCI: Polyquaternium-37 (and) Propylene Glycol Dicaprylate/Dicaprate (and) PPG-1 Trideceth-6

Product Description:

IntegriGEL P37 - PG is a polymer developed specifically for cosmetic and personal care products. It is a **cationic** polymer (**Polyquaternium 37**) dispersed in **Propylene Glycol Dicaprylate/Dicaprate**..

Product Characteristics:

- Cationic Charge
- Easy-to-Use Liquid; No Neutralization
- Multifunctional Design for Oil-in-Water Emulsions
- Thicken, Emulsify and Stabilize Cold Process Emulsions
- No HLB Calculation
- Functions over a Broad pH Range (best suited pH 3 – 7)

Appearance	White Mobile Liquid
Ionic Character	Cationic
Dry Weight (%)	48 - 52
pH 25 °C (2% Aqueous)	3.2 – 4.8
(Brookfield) Viscosity cps (as supplied)	400 – 3,000 cps
Viscosity in Aqueous Solution (cps)	
2.0% Brookfield RVT Spindle 6, Speed 20 @ 25° C	20,000 – 50,000
1.5% Brookfield RVT Spindle 6, Speed 20 @ 25° C	10,000 – 40,000
Shelf Life	12 months

Stablizing / Suspending Agent

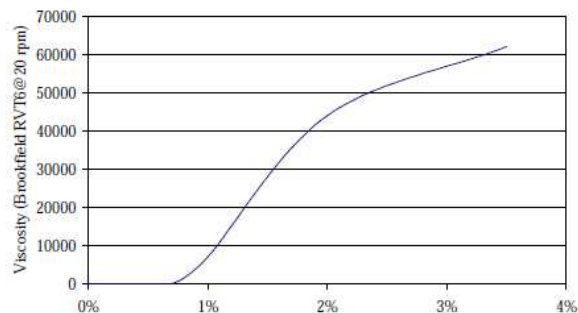
- Emulsions with cationic and non-ionic ingredients
- Suspension of solid particles



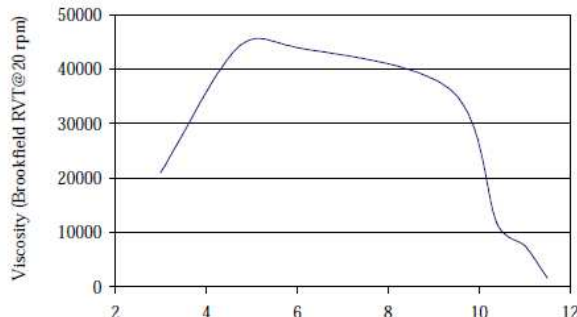
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Effect of Concentration



Effect of pH



% of IntegriGEL P37-PG

pH

Cosmetic Applications

IntegriGEL P37-PG allows to easily formulate skin care and hair care products. Formulations are smooth with a non greasy and non sticky after feel.

Rub in and spreadability of highly thick and compact creams are easier to produce and more uniform.

The cationic nature of the polymer provides affinity to the skin and enhances water proofing ability of cosmetic formulations.

Hair Care:

- After Shampoos
- Masks
- Conditioning creams.....

IntegriGEL P37-PG provides a conditioning effect (a film that coats the hair fiber) due to its cationic nature. Can also be formulated with other conditioning agents (Quats).

Skin Care:

- AHA and BHA based formulations
- Sunless tanning systems
- Sunscreens
- Solvent based formulations.....

IntegriGEL P37-PG provides a moisturizing effect.

IntegriGEL P37-PG is characterized by its high versatility in use.

- It is supplied as a ready to use liquid form
- no neutralization (addition at any stage of the manufacturing process)
- no need to heat to dissolve it

Concentration use depends on the required final viscosity (between 0.2 and 4.0%)

The viscosity and stability of formulations made with **IntegriGEL P37-PG** are not influenced by high temperatures.

Toxicological Data

See MSDS

Storage

IntegriGEL P37-PG 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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