

# IntegriGEL P37 Series



Cationic Thickening,  
Stabilizing and Suspending Agents

## IntegriGEL P37 Series

### IntegriGEL P37-PG

**INCI Name:** 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
- Multi-functional 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 – 10)

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)	20,000 – 50,000
2.0% Brookfield RVT Spindle 6, Speed 20 @ 25 C	10,000 – 40,000
1.5% Brookfield RVT Spindle 6, Speed 20 @ 25 C	
Shelf-Life	12 Months

#### Stabilizing / Suspending Agent

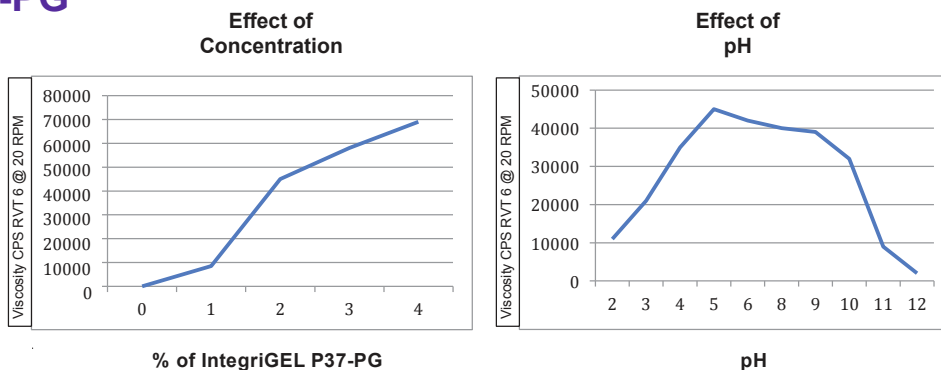
- Emulsions with cationic and non-ionic ingredients
- Suspension of solid particles

# Integrity Ingredients Corporation

## “Where Quality and Service Meet”

### IntegriGEL P37 Series

#### IntegriGEL P37-PG



#### 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).

#### 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.

#### Skin Care:

- AHA- and BHA-Based Formulations
- Sunless Tanning Systems
- Sunscreens
- Solvent-Based Formulations

IntegriGEL P37-PG provides a moisturizing effect and 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

**Packaging:** 60 kg drums

## IntegriGEL P37 Series

### IntegriGEL O/W P37 PWDR

**INCI Name: Polyquaternium 37**

**Product Description:**

IntegriGEL O/W P37 PWDR is a rheology modifier developed by Integrity Ingredients Corporation specifically for cosmetic and personal care products. It is a cationic acrylic polymer in powder form. It is typically used to thicken cationic aqueous solutions and to stabilize O/W emulsions.

**Product Characteristics:**

IntegriGEL O/W P37 PWDR is a ready to use powder form. The polymer swells immediately in water, at room temperature, without any neutralization nor addition of salt.

Appearance	White powder
Odor	Slightly acrylic
Active Content	>90%
Viscosity (1% solution)	30,000 - 45,000 (RVT Sp 6 @20 rpm)
pH (2% solution)	4 - 6*
Shelf-Life	24 months

IntegriGEL O/W P37 PWDR does not contain preservatives

**Performances:** IntegriGEL O/W P37 PWDR is a ready-to-use thickener, easy to disperse, that can be added at any stage of the formulation (including as a final adjustment of viscosity). It can be used in cold process (cost effectiveness and protection of thermo-sensitive compounds) or hot process (stability not influenced by temperature).

**Properties:** Forms gels and provides conditioning properties due to the cationic nature.

**Rheological Profile:** Solutions of IntegriGEL O/W P37 PWDR are pseudo-plastic and non thixotropic. The gel structure is easily broken-down by shear stress and comes back instantaneously to its initial value.

**Emulsifying Agent:** IntegriGEL O/W P37 PWDR allows the formulation of highly stable O/W emulsions regardless of the oil type.

**Stabilizing/Suspending Agent** IntegriGEL O/W P37 PWDR stabilizes:

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

**Formulations on a wide pH range (from 3 to 10), particularly in acidic pH.**

## IntegriGEL P37 Series

### IntegriGEL O/W P37 PWDR

#### **Cosmetic Applications:**

IntegriGEL O/W P37 PWDR allows to formulate skin care and hair care products. Formulations are smooth with a non-greasy and non sticky after feel. Rub-in and spread ability of highly thick and compact creams are easier and more uniform.

#### **Hair Care:**

- After Shampoos
- Masks
- Conditioning Creams

IntegriGEL O/W P37 PWDR provides a conditioning effect (a film that coats the hair fiber) due to its cationic nature. Can be formulated with other conditioning agents (Quats).

#### **Skin Care:**

- AHA- and BHA-Based Formulations
- Sunless Tanning Systems
- Sunscreens
- Solvent-Based Formulations

IntegriGEL O/W P37 PWDR provides a moisturizing effect and is characterized by its high versatility in use.

#### **Storage:**

IntegriGEL O/W P37 PWDR should be stored at a temperature between 0°C and 40°C. 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:** IntegriGEL O/W P37 PWDR available in 25 kg bags

## IntegriGEL P37 Series

### IntegriGEL O/W P37-LV PWDR

**INCI Name: Polyquaternium 37**

**Product Description:**

IntegriGEL O/W P37-LV PWDR is a rheology modifier developed by Integrity Ingredients Corporation specifically for cosmetic and personal care products. It is a cationic acrylic polymer in powder form. It is typically used to thicken cationic aqueous solutions and to thicken/stabilize cationic O/W emulsions.

**Product Characteristics:**

IntegriGEL O/W P37-LV PWDR is a ready to use powder form. The polymer swells immediately in water, at room temperature, without any neutralization nor addition of salt.

Appearance	White powder
Odor	Slightly acrylic
Active Content	>85%
Viscosity (1% solution)	15,000 - 20,000 (RVT Sp 6 @20 rpm)
pH (2% solution)	4-6*
Shelf-Life	24 months

IntegriGEL O/W P37-LV PWDR does not contain preservatives

**Performances:** IntegriGEL O/W P37-LV PWDR is a ready-to-use thickener, easy to disperse, that can be added at any stage of the formulation (including as a final adjustment of viscosity). It can be used in cold process (cost effectiveness and protection of thermo-sensitive compounds) or hot process (stability is not influenced by temperature).

**Properties:** Forms gels and provides conditioning properties due to the cationic nature.

**Rheological Profile:** Solutions of IntegriGEL O/W P37-LV PWDR are pseudo-plastic and non-thixotropic. The gel structure is easily broken-down by shear stress and comes back instantaneously to its initial value.

**Emulsifying Agent:** IntegriGEL O/W P37-LV PWDR allows the formulation of highly stable O/W emulsions regardless of the oil type.

**Stabilizing/Suspending Agent** IntegriGEL O/W P37-LV PWDR stabilizes:

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

**Formulations on a wide pH range (from 3 to 10), in particular in acidic pH.**

## IntegriGEL P37 Series

### IntegriGEL O/W P37-LV PWDR

#### **Cosmetic Applications:**

IntegriGEL O/W P37-LV PWDR allows to formulate skin care and hair care products. Formulations are smooth with a non-greasy and non sticky after feel. Rub-in and spread ability of highly thick and compact creams are easier and more uniform.

#### **Hair Care:**

- After Shampoos
- Masks
- Conditioning Creams

IntegriGEL O/W P37-LV PWDR provides a conditioning effect (a film that coats the hair fiber) due to its cationic nature. It can be formulated with other conditioning agents (Polyquaterniums, Quats, etc.).

#### **Skin Care:**

- AHA- and BHA-Based Formulations
- Sunless Tanning Systems
- Sunscreens
- Solvent-Based Formulations

Concentration use depends on required final viscosity (between 0.2% to 4.0%). IntegriGEL O/W P37-LV PWDR is able to provide thickening at low dosage. The use of anionic ingredients should be avoided.

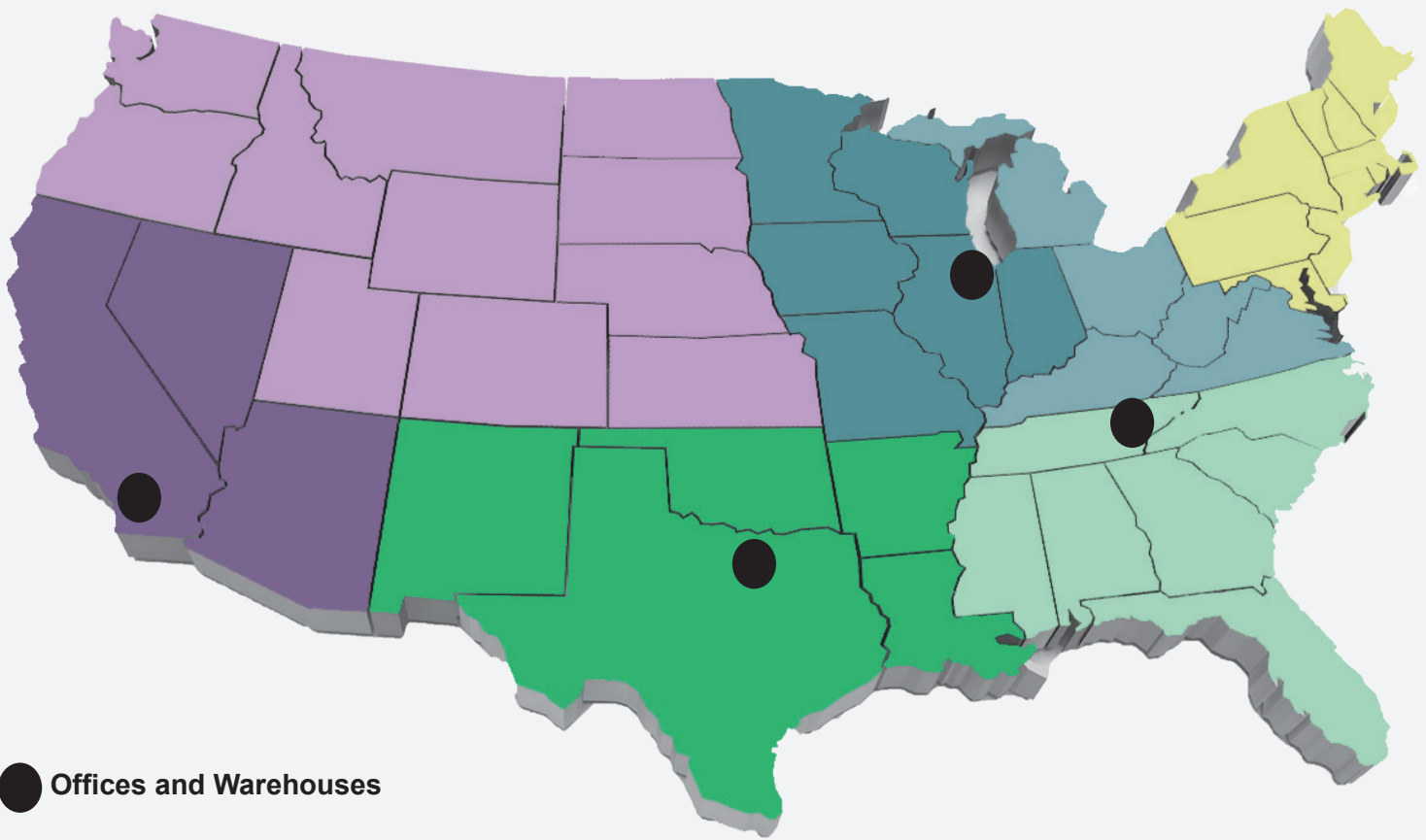
**Toxicological Data:** See MSDS

#### **Storage:**

IntegriGEL O/W P37-LV PWDR should be stored at a temperature between 0°C and 40°C. 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:** IntegriGEL O/W P37-LV PWDR is available in 25 kg bags.





● Offices and Warehouses

### Northwest Region

**Nathan Reighard**

nreighard@integrityingredientscorp.com

(803) 743-8989

### Midwest Region

**Connie Wightman**

cwrightman@integrityingredientscorp.com

(951) 867-1584

### Northeast Region

**Evelyn Kirton**

ekirton@integrityingredientscorp.com

(949) 910-0713

### West Coast Region

**Maria Reighard**

mreighard@integrityingredientscorp.com

(619) 504-6000

### South-Central Region

**Joy Roederer, PhD**

jroederer@integrityingredientscorp.com

(214) 674-0026

### Mideast Region

**Rodney Grau**

rgrau@integrityingredientscorp.com

(602) 350-6723

**For Technical and Sales Support, please contact:**

#### Joy Roederer, PhD

Vice President of Research & Development

jroederer@integrityingredientscorp.com

(214) 674-0026

#### Evelyn Kirton

Vice President of Sales

ekirton@integrityingredientscorp.com

(949) 910-0713

### Southeast Region

**Sandy Bush**

sbush@integrityingredientscorp.com

(951) 553-4175

○<sub>2</sub> **Integrity Ingredients Corporation**



"Where **Quality** and **Service** Meet"

2255 Jefferson Street

Torrance, CA 90501

(310) 782-0282

Email: [info@integrityingredientscorp.com](mailto:info@integrityingredientscorp.com)  
[www.integrityingredientscorp.com](http://www.integrityingredientscorp.com)