



PERSONAL CARE

POLYMERS

TAKING CARE OF PEOPLE INSIDE AND OUT





POLYMERS FOR PERSONAL CARE

Polymers in cosmetics are used to improve the properties, stability and texture of products.

OPACIFIERS

Added to transparent products to give them opacity.

POLYQUATERNIUMS & HAIR CARE PRODUCTS

Facilitates hair handling and styling.

RHEOLOGY MODIFIERS

Improves the texture and application of cosmetic products.

EMULSIFIERS

Helps stabilizing emulsions for better application.



OPACIFIERS

OPM 544 - INCI: Styrene Acrylates Copolymer

Viscosity	pH	Solids	Dosage
< 100 cP	2,0 – 3,5	40%	0,1 – 1,0%

Properties

Objective: To improve the appearance of the product, even if colouring compounds are used in its formulation. It imparts uniform opacity to transparent or colorful formulations in non-ionic systems.

Application:

- Bath and shower products.
- Shampoos.
- Liquid hand soaps.
- Hair conditioners.
- Skin lotions.



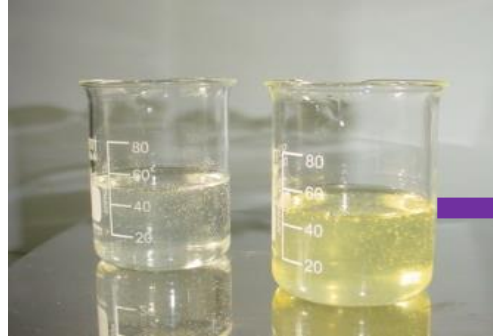
OPM 544 - EXAMPLE OF USE

Liquid Soap Base + 1% Opacifier

Recommended Compatibility Test:

Add 1% of opacifier* (diluted at 25%) over the Base and keep it at 4°C, 25°C and 40°C during 4 weeks

*1% → maximum dosage



OPG 854 - INCI: Styrene-acrylate copolymer/decyl glucoside

OPG 877C - INCI: Styrene-acrylate copolymer/coco glucoside

Viscosity	pH	Solids	Dosage
< 100 cP	3,5 – 5,0	42 - 44%	0,1 – 1,0%

Properties

Objective: Is specially suited as opacifier for Liquid Surfactant Formulations. Useful for non-ionic and anionic systems. Very Easy Application (**can be applied directly, at any stage of the formulation, without need to predisperse in water**).

Application:

- Bath and shower products.
- Shampoos.
- Liquid hand soaps.
- Hair conditioners.
- Skin lotions.
- Baby-care & facial cleansers.





POLYQUATERNIUMS

DER K2PF - INCI: Polyquaternium 6

Viscosity	pH	Solids	Dosage
5.000 – 12.000 cP	5,0 – 7,0	39 - 42%	0,3 – 5,0%

Properties

- DADMAC Homopolymer.
- 100% cationic.
- High substantive power.
- Compatible with cationic, non-ionic and amphoteric surfactants.
- It imparts a smooth and velvety touch on the skin contributing greatly to maintain a maximum degree of hydration.
- Easy to dosage due to its solubility in water.
- Very high molecular weight polymer.

DER K2PF - INCI: Polyquaternium 6

Application

HAIR CARE PRODUCTS

Used in Hair Relaxers, Bleaches, Dyes, Shampoos, Conditioners.

It provides:

1. A luster and a soft, silky feel
2. Excellent slip, lubricity and snag-free wet compatibility.
3. Excellent dry combability and reduces static.



SKIN CARE PRODUCTS

Used in Moisturizing Creams, Lotions, Bath Gels, Liquid Soaps, Soap Bars, Shaving Products, Antiperspirants and Deodorants.

It provides:

1. A smooth, velvety feel; reduces tightness after drying skin.
2. Excellent moisturization.
3. Lubricity which can help make skin care products easier to apply.
4. Enhances spreadability of creams and lotions.

INCI: Polyquaternium 7

Derypol offers different PQ7 at different concentrations:

PQ7 SERIES
DER K228PF at 10% actives
DER K227PF at 10% actives
DER K327PF at 20% actives
DER K427B at 36% actives
DER K400 at 40% actives

Properties:

- Acrylamide / DADMAC copolymer.
- All PQ7 are Parabens Free.
- PQ7 is an aqueous cationic polymer compatible with cationic, non-ionic, anionic and amphoteric surfactants.
- It provides transparent and colorless cosmetic products.
- It contributes to luster and soft, silky feel to skin and hair.
- Imparts Excellent wet and dry combability.
- It provides dense and creamy foam.



INCI: Polyquaternium 7

Product	Viscosity	pH	Solids	Dosage
DER K228PF	7.500-15.000 cP	3,0 – 4,5	8 - 10%	Optimum dosage will be according to the solid product content and customer needs.
DER K227PF	7.500-15.000 cP	3,0 – 4,5	8 - 10%	
DER K327PF	7.500-15.000 cP	3,3 – 4,5	17 - 20%	
DER K427B	<2.000 cP	3,3 – 4,5	33 - 36%	
DER K400	3.000-8.000 cP	3,3 – 4,5	39 - 41%	

Application

HAIR CARE PRODUCTS

Used in Shampoos, Dyes, Conditioners, Styling products.

It provides:

1. Creamy foam to shampoos.
2. Soft and silky hair. Hair softener and wet hair feeling during washing.
3. Excellent dry combability.
4. Snag-free wet combability.

SKIN CARE PRODUCTS

Used in Lotions, Bath Gels, Liquid soaps, bar soaps, deodorants, shaving products, moisturizing creams.

It provides:

1. Smoothness and reduces tightness sensation.
2. Lubricity in order to be easier to apply.
3. Excellent moisturization.

DER K11PF - INCI: Polyquaternium 11

Viscosity	pH	Solids	Dosage
10.000 – 60.000 cP	5,0 – 7,0	19 - 22%	2 to 10 % depending on the application

Properties

- Vinylpyrrolidone / Dimethylaminoethyl Methacrylate (DMAEMA) copolymer
- Easy incorporation in formulations due to complete water solubility.
- Compatible with cationic, non-ionic, anionic and amphoteric surfactants.
- Compatibility with ethanol for hair formulations (musses and sprays).
- Acts as an antistatic agent, film former and hair fixative.
- Parabens Free.

Application:

Conditioner fixing power, it is primarily used in styling gels hair gel type.

It provides brightness to the hair.



DER BCA42PF - INCI: Polyquaternium 22

Viscosity	pH	Solids	Dosage
3.000 – 6.000 cP	4,0 – 5,5	39 - 43%	1 to 3%

Properties

- Acrylic acid / DADMAC copolymer.
- Compatible with cationic, non-ionic, anionic and amphoteric surfactants.
- Substantively properties to skin and hair (PQ22 is mainly used in hair care formulations due to its high cationicity).
- It provides stable, rich and dense foam.
- Preservative system is sodium benzoate.



DER BCA42PF - INCI: Polyquaternium 22

Application

HAIR CARE PRODUCTS

Used in shampoos, conditioners, styling products. It provides:

1. Conditioning properties for products with extreme range of pH.
2. No hair color affect and Soft and silky feeling.
3. Excellent dry combability.
4. Compatible with most anionic and amphoteric surfactants.
5. Snag-free wet combability.

SKIN CARE PRODUCTS

Used in Moisturizing Creams, Lotions, Bath Gels, Liquid Soaps, Soap Bars, Shaving Products, Antiperspirants and Deodorants.

It provides:

1. A smooth, velvety feel; reduces tightness after drying skin.
2. Provides excellent moisturization.
3. Contributes lubricity which can help make skin care products easier to apply.



DER K592 - INCI: Polyquaternium 22

Viscosity	pH	Solids	Dosage
3.500 – 9.000 cP	4,0 – 5,5	36 - 40%	1 to 3%

Properties

- Acrylic acid / DADMAC copolymer.
- Demonstrates ampholytic characteristics.
- Excellent stability in extreme pH applications making it ideally suited for use in products for dry or chemically treated hair.
- Recommended for ethnic hair care as well as skin care applications.
- Preservative Free.



DER K592 - INCI: Polyquaternium 22

Application

HAIR CARE PRODUCTS

Used in shampoos, conditioners, styling products. It provides:

1. Conditioning properties for products with extreme range of pH.
2. No hair color affect and Soft and silky feeling.
3. Excellent dry combability.
4. Excellent slip, lubricity and snag-free wet combability.
5. Compatible with most anionic and amphoteric surfactants.
6. Non-flaking.

SKIN CARE PRODUCTS

Used in Moisturizing Creams, Lotions, Bath Gels, Liquid Soaps, Soap Bars, Shaving Products, Antiperspirants and Deodorants. It provides:

1. A smooth, velvety feel; reduces tightness after drying skin.
2. Provides excellent moisturization.
3. Contributes lubricity which can help make skin care products easier to apply.
4. Liquid cleansing products acquire richer foam with improved stability.



DER K3200PF - INCI: Polyquaternium 32

Viscosity	pH	Solids	Dosage
7.500 – 15.000 cP	3,5 – 4,5	10 - 14%	2 to 5%

Properties

- Acrylamide / Dimethylaminoethyl Methacrylate Methyl Chloride (MADAMQUAT) copolymer.
- Commonly used as an ingredient in many hair care products such as shampoos, conditioners, masks, and styling products due to its conditioning, protective, and antistatic properties.
- Considered a safe and nontoxic ingredient.



DER K3200PF - INCI: Polyquaternium 32

Application

Antistatic Properties

1. It reduces the frizz effect and accumulation of static electricity in the hair, helping to keep it smooth and easy to style.
2. Useful ingredient in many styling products such as hair gels and hair sprays.

Conditioning and Protective Properties

Used in shampoos, conditioners, masks.

1. Ability to penetrate the hair shaft and provide a protective barrier against moisture and other environmental stressors.
2. It helps to maintain hair moisture, prevent dryness and brittleness, and improve its overall appearance.



DER K3700PF - INCI: Polyquaternium 37

Viscosity	pH	Solids	Dosage
2.000 – 8.000 cP	3,0 – 4,5	9 - 11%	2 to 5%

Properties

- Dimethylaminoethyl Methacrylate Methyl Chloride (MADAMQUAT) Homopolymer.
- Quaternary ammonium polymer commonly used as an ingredient in many hair care products such as shampoos, conditioners, masks, and styling products due to its conditioning, protective, and antistatic properties.



INCI: Polyquaternium 39

Product	Viscosity	pH	Solids	Dosage
DER K39PF	1.000-6.000 cP	3,3 - 4,5	10,2 - 11,5%	Suggested starting dosage at 1% (K39PF) or 0,25% (K439PF)
DER K439PF	7.000-17.000 cP	3,0 - 4,1	39 - 41%	

Properties

- Acrylamide / Acrylic Acid / DADMAC terpolymer.
- Amphoteric terpolymer suited for liquid cleansing products.
- Compatible with cationic, non-ionic, anionic and amphoteric surfactants.
- Preserved with Sodium Benzoate as an alternative to parabens.



INCI: Polyquaternium 39

DER K39PF & DER K439PF

Application

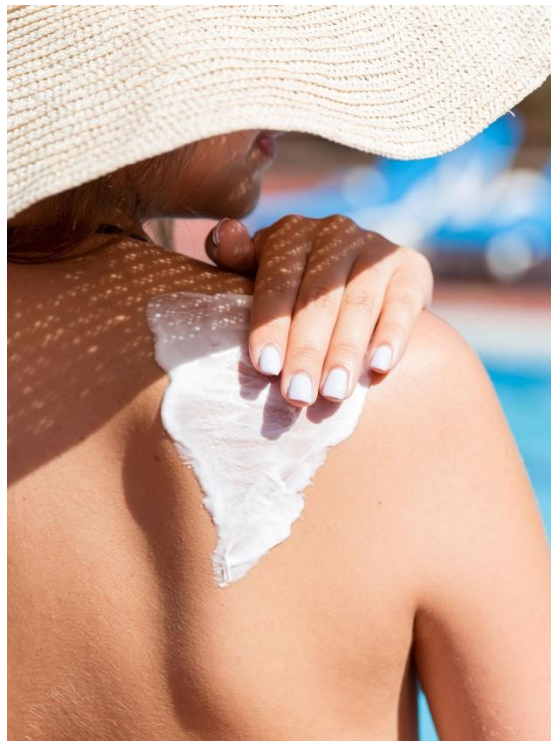
- Imparts a smooth, velvety feel.
- Reduces tightness after drying skin.
- Reduces irritation from liquid skin cleansing products.
- Liquid cleansing products acquire richer, thicker foam with improved stability.

HAIR CARE PRODUCTS

Used in Curl Activators, Bleaches, Dyes, Shampoos, Conditioners.

SKIN CARE PRODUCTS

Used in Moisturizing Creams, Lotions, Bath Gels, Liquid Soaps, Soap Bars, Shaving Products, Antiperspirants, Deodorants and Sun Care Products.



POLYQUATERNIUMS

SUMMARY

Product	Main Use
PQ6	Hair Care (100% cationic)
PQ7	Hair & Skin Care
PQ11	Styling
PQ22	Hair Care
PQ32	Hair Care
PQ37	Hair Care
PQ39	Hair Care (Curl activators)



HAIR CARE PRODUCTS

HYGEL LV30 & LV40 - INCI: Acrylates Copolymer

Chemical Description: Terpolymer of tert-butyl acrylate, ethyl acrylate and methacrylic acid

Product	Viscosity	pH	Solids	Dosage
HYGEL LV30	<1.500 cP	2,5 - 4,0	27 - 30%	15 - 25%
HYGEL LV40	<1.500 cP	2,5 - 4,0	33 - 37%	10 - 20%

Properties

- Anionic Polymer in aqueous dispersion form.
- Film formers protect hair through the formation of a coherent structure protecting keratin.
- Ideal for fixing hairstyles or improving combability forming a protective film and smooth the natural cuticle of hair. So the hairstyle persists even in humid weather and can defy the weather conditions.
- In addition, LV30 & LV40 offers high humidity curl retention properties. They are polymers with unparalleled holding power for ultimate control in all temperature and humidity conditions.



HYGEL LV30 & LV40 - INCI: Acrylates Copolymer

Chemical Description: Terpolymer of tert-butyl acrylate, ethyl acrylate and methacrylic acid

Application:

HAIR CARE PRODUCTS

Used in **setting and fixing hair, combing hair and curl retention.**

Hair Spray Formulation Example:

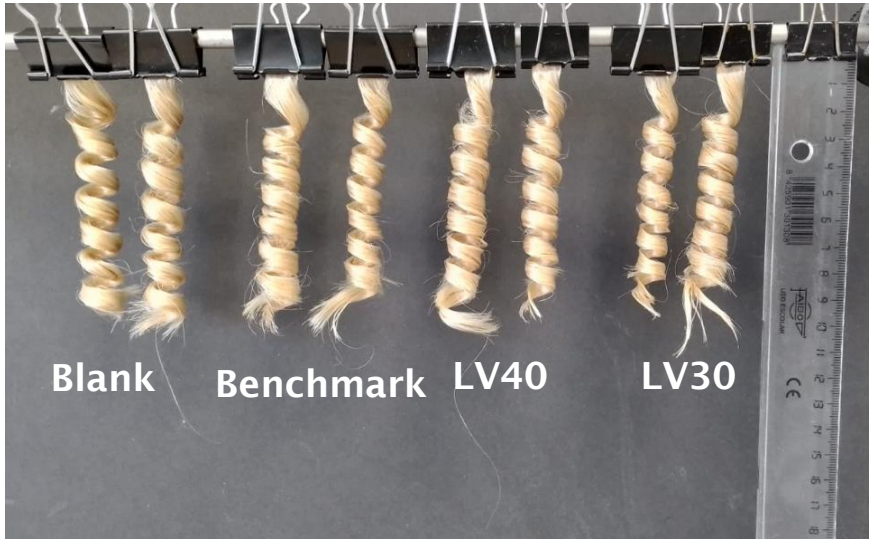
1,39%	AMP
3,61%	Water
75%	Ethanol
20%	HYGEL LV30

1,39%	AMP
3,61%	Water
80%	Ethanol
15%	HYGEL LV40

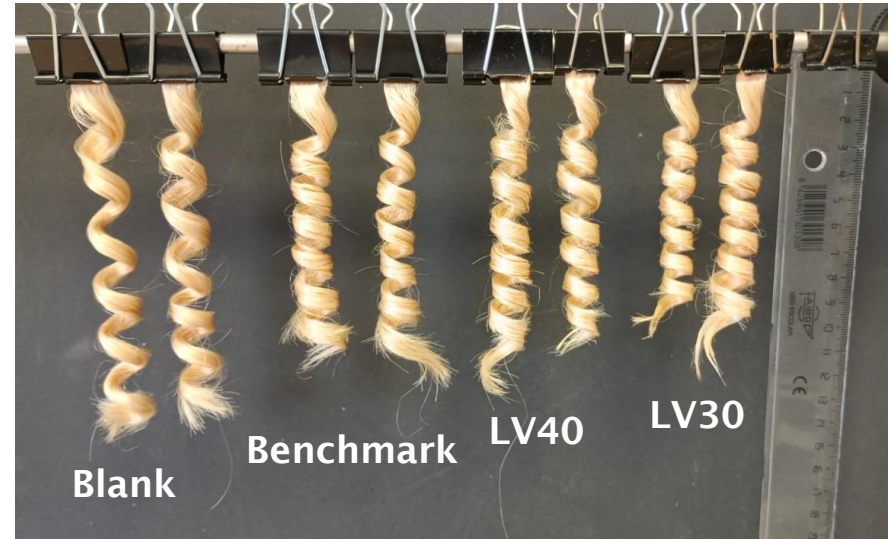
For best results, it should be completely neutralized, preferably with AMP (2-amino-2-methylpropane-1-ol).

HYGEL LV30 & LV40 - INCI: Acrylates Copolymer

Curl Retention Test



T=0



T=4 days



RHEOLOGY MODIFIERS

HYGEL CL1700 - INCI: Acrylates Copolymer

Viscosity	pH	Solids	Dosage
< 100 cP	2,1 – 4,0	29 - 31%	7 - 10% of commercial product

Properties

- Crosslinked polymer of acrylic monomers in aqueous emulsion with a high suspending and stabilizing ability.
- Anionic rheology modifier which provides clear formulations which contains high level of surfactants.
- It provides transparent formulations.
- It works synergistically with surfactants and salts up to 2%.
- pH Adjustment at pH 7.
- pH can be reduced with Citric Acid and keep the same viscosity.

Application

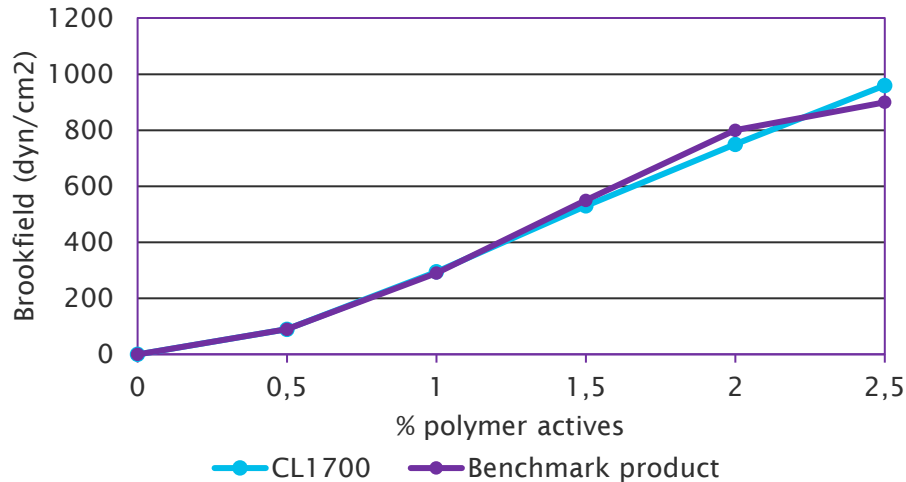
- It is usually used on clear shampoos, bath gels and 2 in 1 conditioning shampoos.
- Antidandruff shampoos.
- Baby shampoos.
- Facial Cleansers.
- Sanitizing gels.
- Low pH formulations.
- Pearlized Cleansing Products.



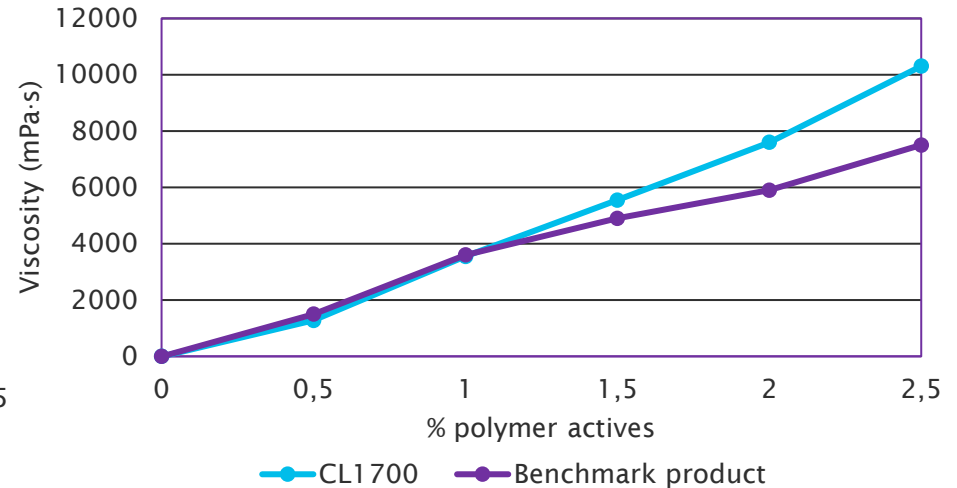
HYGEL CL1700 - INCI: Acrylates Copolymer

- Viscosity and Brookfield Yield Value (BYV) when active levels are increased in a **pH = 7** system **without surfactants**.
- When compared with benchmark product, similar results are observed.

BYV vs % polymer actives in water



Viscosity vs % polymer actives in water



HIMOSAP GAS100 - INCI: Acrylamide/ Sodium Acryloyldimethyltaurate/ Acrylic Acid copolymer

Viscosity	pH	Actives	Dosage
< 3.000 cP	3,0 – 6,0	20%	10% of commercial product

Properties

- Anionic polymer in water dispersion form. FREE of Solvents, surfactants and oils.
- pH independent.
- Immediate dispersion.
- It provides transparent formulations.
- Compatible with non-ionic surfactants.
- Excellent salt tolerance.
- Stable in polar dissolvent (sorbitol, glycerin, propylene glycol, glycolic acid).

Application

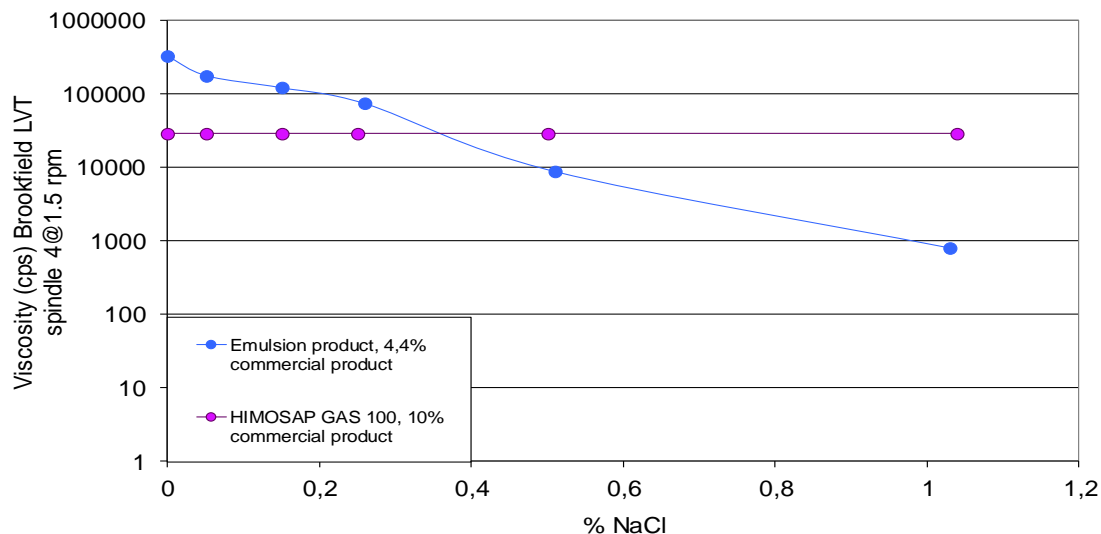
All kind of transparent Gels such as:

- Aloe Vera gels.
- Anti-cellulite gels.
- Hot & Cold effect gels.
- Chemical peeling gels.



HIMOSAP GAS100 - INCI: Acrylamide/ Sodium Acryloyldimethyltaurate/ Acrylic Acid copolymer

GAS100 stability with NaCl against an inverse emulsion



HIMOSAP GAS100 - INCI: Acrylamide/ Sodium Acryloyldimethyltaurate/ Acrylic Acid copolymer

Compatibilities

Water

Sorbitol 50% : Water 50%

Glycerin 50% : Water 50%

Propylene glycol 50% : Water 50%

Ethanol 10% : Water 90%

Sodium Chloride

Incompatibilities

Sodium Lauryl ether sulfate

Hydrogen peroxide



HIMOSAP LUBI255CARE - INCI: Sodium Acrylate/ Sodium Acryloyldimethyl Taurate/ Acrylamide copolymer

Viscosity	pH	Actives	Dosage
< 3.500 cP	6,0 – 7,0	20%	5% of commercial product

Properties

- Provides a high lubricity for Personal Care Products.
- Provides viscosity without pH adjustment.
- Completely Clear (transparent formulations).
- Easy to dissolve (Immediate dispersion).
- Easy to clean.
- Regulatory approved for LEAVE-ON FORMULATIONS (< 0,5 ppm ACRYLAMIDE): (CE) n^a 1223/2009.

Application

- Water based lube.
- Massage gels.

Residual ACRYLAMIDE < 10 ppm



HIMOSAP LUBI255FARMA - INCI: Sodium Acrylate/ Sodium Acryloyldimethyl Taurate/ Acrylamide copolymer

Viscosity	pH	Actives	Dosage
< 3.500 cP	6,0 – 7,0	20%	5% of commercial product

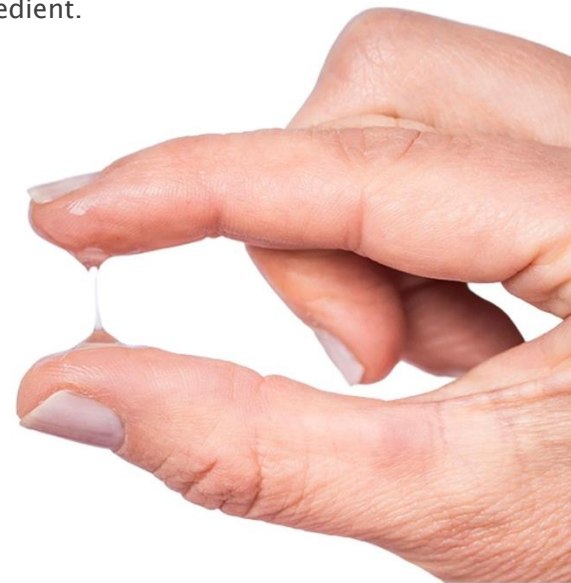
Properties

- Provides a high lubricity for Pharma Products.
- Provides viscosity without pH adjustment.
- Completely Clear (transparent formulations).
- Easy to dissolve (Immediate dispersion).
- Easy to clean.
- Regulatory approved for LEAVE-ON FORMULATIONS (< 0,5 ppm ACRYLAMIDE): (CE) n° 1223/2009.

Application

- Intimate gel moisturizing ingredient.

Residual ACRYLAMIDE < 2 ppm



HYGEL E100FD - INCI: CARBOMER (Fast dispersion)

Viscosity at 0,5%	pH	Solids	Dosage
45.000 – 65.000 cP	2,7 – 3,5	White granulated powder	Between 0,2 and 1% depending on the desired viscosity

Properties

- Acrylic-based polymer in powder form, used to formulate transparent gels.
- It is an optimized grade of Carbomer with better clarity, handling and less foam.
- Thickening agent for aqueous solutions.
- Pseudoplastic and non thixotropic solutions.
- High yield value, so it is an effective agent for emulsion stabilization and stable suspension of solid particles.

Application for body and hair treatment:

- Hair styling gels.
- Hydroalcoholic gels.
- Moisturizing gels.
- Bath gels.
- Hand, body and face lotions.
- Creams.
- Sunscreen lotions.





SENSORY MODIFIERS

HIMOSAP GA2020R - INCI: Acrylamide/ Sodium Acryloyldimethyl Taurate/Acrylic Acid copolymer

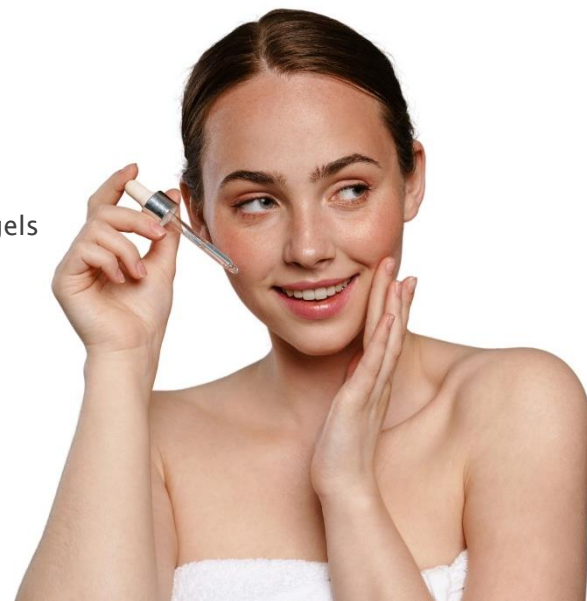
Viscosity	pH	Actives	Dosage
< 2.000 cP	2,0 - 6,0	20%	1% of commercial product

Properties

- Anionic polymer in water dispersion form. FREE of Solvents, surfactants and oils.
- pH independent.
- Immediate dispersion.
- It provides transparent formulations.
- Compatible with non-ionic surfactants.
- Stable in polar solvent (sorbitol, glycerin, propylene glycol, glycolic acid).

Application

- Facial Serum.
- Hair gels.
- Hair Growth Serum.
- Anti acne and exfoliant gels and creams.
- Lotions & Creams.



HIMOSAP GA2020R - INCI: Acrylamide/ Sodium Acryloyldimethyl Taurate/Acrylic Acid copolymer

Skin Glycolic Gel Formulation Example:

Composition

Ingredients:	%Wt	Function	Supplier
1. Deionized Water	74,54	Solvent	Other
INCI <u>Deionized Water</u>			
2. Glycolic Acid (65%)	18,46		
INCI <u>Glycolic Acid</u>			
3. Abil B 8843	1,00	hydrophilic surfactant	Evonik
INCI <u>PEG-14 Dimethicone</u>			
4. Himoloc GA2020R	6,00		Derypol
INCI <u>Acrylamide / Sodium acryloyldimethyltaurate / Acrylic acid copolymer in aqueous dispersion with ammonium and sodium sulphate</u>			

Procedure:

1. Add Glycolic Acid into water while stirring and stir it until complete homogeneization.
2. Add PEG-14 Dimethicone and keep stirring until complete homogeneization.
3. Slowly add Himosap GA2020R and stir until complete homogeneization.

Specs:

Viscosity (3@30): 480 cp

- Adding an extra 6% GA2020R: Viscosity (4@30): 1950 cp

- Thickener (even at low pH and high Glycolic Acid content)
- Sensory Modifier
- It provides an extra sensation of smoothness in the application improving the skin feeling



HYFIX CX414 - INCI: Methacrylic Acid / Sodium Acrylamidomethyl Propane Sulfonate Copolymer

Viscosity	pH	Solids	Dosage
7.500 – 25.000 cP	5,3 – 6,5	10,5 – 13,5%	Depends on the application

Properties

- Anionic copolymer in aqueous solution.
- Great holding power. It does not leave white flakes when drying. Filmogen and fixative agent.
- It provides transparent formulations for applications in hair and skin products.
- Is recommended a previous dilution to obtain better results.
- Easy incorporation into formulations without heating and without neutralization.

Application

In Hair Care Products:

- Adapted for styling gels, waxes, Creams.
- Curl retention.

In Skin Care Products:

- Lotions, Liquid cleansing Products, Shaving, moisturizing creams, eye serum.
- Eye liner fixation.
- Make up fixation.



HYFIX CX414 - INCI: Methacrylic Acid / Sodium Acrylamidomethyl Propane Sulfonate Copolymer

Eye Serum Formulation Example:

Eye Serum - INCI Name, Trade Name	Weight %	Function
Aqua	73,10	Solvent
Propylene Glycol	3,00	Humectant
Methylparaben, Ethylparaben, Propylparaben, Butylparaben, Phenoxyethanol	0,40	Preservative
Cyclopentasiloxane	7,00	Conditioner, emollient
Ceteareth-25 (cetyl/stearyl alcohol ethoxylated)	2,00	Emulsifier
Cera Alba	2,00	Thickener
Cetearyl Alcohol	2,00	Emollient, emulsifier
Camelia Japonica Seed Oil	3,00	Functional natural ingredient
HYGEL LE305	1,50	Rheology modifier
Polydimethylsiloxane	5,00	Conditioner, moisturizer
HYFIX CX414	1,00	Filmogen, Fixative agent
Parfum	1,00	Parfum

Procedure:

1. Mix ingredients 1, 2 and 3(phase A) and 4,5,6,7 and 8 (phase B) at 75°C.
2. Add phase B into phase A under high stirring and maintain during 10 minutes.
3. Cool down under light stirring and add phase C (mix of 8,9,10,11,12).





EMULSIFIERS

HYGEL LE585 - INCI: Acrylamide / Sodium Acrylate Copolymer / Mineral Oil (Paraffinum Liquidum), Trideceth - 6

Viscosity	pH	Solids	Dosage
400 – 1.400 cP	5,0 – 7,0	57,5%	0,4 – 4,0% depending on the desired viscosity

Properties

- Anionic acrylic copolymer dispersed in medicinal grade white oil.
- Used to thicken aqueous solutions and to formulate stable O/W emulsions.
- The polymer swells immediately in water without any pH adjustment, and at room temperature.
- It enhances sensory benefits (skin feel, providing soft after feel).
- Suspension of solid particles (for example physical sunscreens).
- Suspends inorganic pigments, including zinc oxide.
- Compatible with surfactants.

Application:

- Facial and Body Treatment products.
- Cream-like gels & Serums.
- Creams and lotions.
- Cleansing creams (compatibility with surfactants).
- Nail varnish remover.
- High pH formulations: depilatory creams.
- Sensitive creams with low surfactant concentration.

HYGEL LE766 - INCI: Sodium polyacrylate/ Hydrogenated polydecene/ Trideceth-6

Viscosity	pH	Solids	Dosage
15.000 – 25.0000 cP	5,0 – 7,0	55 - 58%	0,4 – 4,0% depending on the desired viscosity

Properties

- Anionic acrylic copolymer dispersed in Hydrogenated Polydecene as an alternative to mineral oil, and it does not contain acrylamide.
- Ready to use, so no neutralization is needed. The addition can be made at any stage of the manufacturing process (at room temperature).
- Used to thicken aqueous solutions and to stabilize O/W emulsions.
- Provides high sensory properties.
- Its solutions do not show significant changes in viscosity and stability at high temperature.
- Helps to stabilize suspensions.
- Compatible with surfactants.

Application:

- Facial and Body Treatment products.
- Cream-like gels & Serums.
- Creams and lotions.
- Cleansing creams (compatibility with surfactants).
- Nail varnish remover.
- High pH formulations: depilatory creams.
- Sensitive creams with low surfactant concentration.

HYGEL LE305 - INCI: Polyacrylamide (and) C13-14 Isoparaffin (and) Laureth-7

Viscosity	pH	Solids	Dosage
1.500 – 4.500 cP	5,0 – 7,0	45 - 55%	0,5 – 5,0% depending on the desired viscosity

Properties

- Anionic thickening and stabilizing agent ready to use as a fluid inverse emulsion.
- It has emulsifying properties with oil phases, providing gel-cream texture.
- It thickens extreme media (highly acidic, highly alkaline or oxidizing) and stabilizes mineral additives.
- Ready to use polymer: it swells immediately in water at room temperature and without any neutralization.
- Allows the formulation of highly stable suspensions under a wide range of pH (from 2 to 11).

Application:

- Facial and Body Treatment products.
- Cream-like gels & Serums.
- Creams and lotions.
- Cleansing creams (compatibility with surfactants).
- Nail varnish remover.
- High pH formulations: depilatory creams.
- Sensitive creams with low surfactant concentration.

HYGEL LE375C - INCI: Polyquaternium 37 Mineral Oil (Paraffinum Liquidum), Trideceth - 6

Viscosity	pH (1%)	Solids	Dosage
500 – 3.000 cP	3,5 – 5,0	53%	0,4 – 4,0% depending on the desired viscosity

Properties

- Cationic acrylic copolymer dispersed in medicinal grade white oil.
- Used to thicken cationic aqueous solutions and to stabilize O/W emulsions.
- Ready to use form, so neutralization is not necessary. It swells immediately in water at room temperature.
- Pseudoplastic and non thixotropic solutions.
- Helps to stabilize suspensions.

Application:

- Due to its cationic character it is used in hair care products and hair masks (nutritive, moisturizing, treatment, ...)
- Self-tanning emulsions.
- Sunscreen emulsions.
- Skin Care with AHA, DHA acid fruits.
- Hair Conditioners.

EMULSIFIERS

SUMMARY

Product	Ionic Character	Electrolyte Resistance	Viscosity at the same dosage	Remarks
LE585	Anionic	😊😊	😊😊😊	High viscosity Lubricant properties
LE766	Anionic	😊😊	😊😊	No acrylamide No mineral oil
LE305	Anionic	😊😊	😊😊	Best Seller No mineral oil
LE375C	Cationic	😊	😊😊	No acrylamide 100% cationic Hair Treatment

* All our LE Series are products in liquid form

Thank you for
your attention!

derypol

