



ALTER- POWDERS

**THE PLANT
ALTERNATIVE
TO UNDESIRABLE
INGREDIENT**



OBJECTIVES

ALTERNATIVES TO UNDESIRABLE INGREDIENTS



INCI

- Plants extracts instead of synthetics or chemically modified products



NATURALNESS

- Up to 100% natural according ISO16128
- Mainly Cosmos compliant



EASY TO USE

WOW!
AND YOU
FOUND IT!



FUNCTIONAL INGREDIENTS THROUGH OUR NEW PLANT ALTERNATIVE RANGE



ALTER-EMULFABA
EMULSIFIER WITHOUT SURFACTANT
J100



ALTER-EMULGEL
A NATURAL EMULSI-GELLING AGENT
WITHOUT SURFACTANT
J106



ALTER-THICKBARLEY
THICKENING AGENT
J101



ALTER-GELIJAC
HIGH VISCOSITIES GELLING AGENT
J104



ALTER-GELITIUM
TRANSPARENT GELLING AGENT
J105



ALTER-TALCANIOC
HYDROPHOBIC POWDER
J103



ALTER-MATTIFIER
A NATURAL INSTANT MATIFFIER
J107

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DERS**

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ALTER- EMULFABA

REF : J100

**EMULSIFIER
WITHOUT
SURFACTANT**

**IDEAL TO FORMULATE O/W
EMULSIONS WITH A TYPICAL
VELVETY FEELING.**



**100% NATURAL
ACCORDING TO ISO 16 128
COSMOS COMPLIANT**



OK CHINA



- **Made from plant extract and gums only**
- **A typical velvety feeling**
- **Good stability (pH, electrolytes...)**



PROPERTIES & USES

- **DOSAGE:**

Recommended to use at 2%.

- **PROPERTIES:**

Oil in water emulsions.

Formation of a nice fluid emulsion.

To obtain a thickener emulsion, it can be combined with our ALTER-THICKBARLEY, ALTER-GELIJAC or ALTER-GELITIUM.

No soapy

- **USES:**

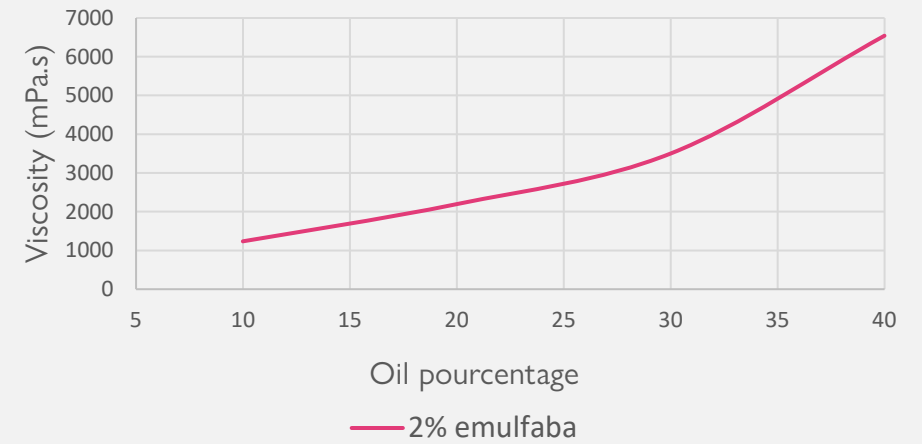
Skincare and bodycare suchs as moisturizing milks, cleansing milks, anti-aging creams

Sprayable



THICKENING CAPACITY

VISCOSITY ACCORDING TO OIL POURCENTAGE



Graph n°1 : viscosity of an emulsion with 2% Alter-Emulfaba according to oil concentration ; Emulsion with only water, preservatives, plant oils and 2% Alter-Emulfaba.

FORMULATION

- **Recommended 2.0%**
- **Hot emulsification (from 45°C) in aqueous phase**
- **Disperse in water first with deflocculator turbine**
- **Add Oil phase (from 45°C) up to 40% at 2% of ALTER-EMULFABA**
- **Use rotor stator to mix**



Figure N°1 :
*microscopic picture of emulsion
formed with 2% of ALTER-
EMULFABA*



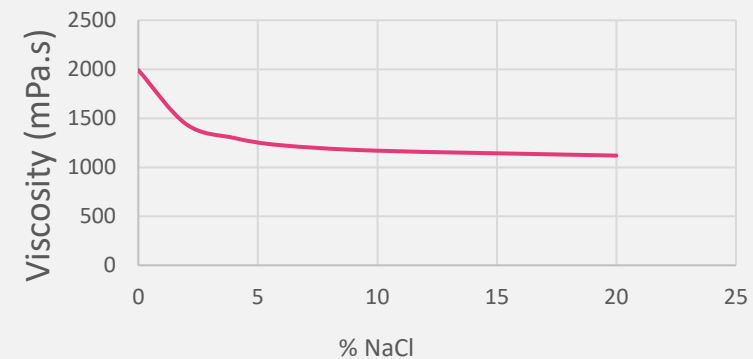
COMPATIBILITIES

- Very good emulsion's stability in a range of pH from 4 to 8.
- It emulsifies all oily phases, whatever their nature : synthetic, mineral or plant oils.

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ALTER-EMULFABA can emulsify media containing some electrolytes.

THICKENING EFFECT IN THE PRESENCE OF ELECTROLYTES



Graph n°3 : viscosity of a 2% ALTER-EMULFABA and 10% oil according to the quantity of electrolytes. % NaCl used.

FORMULATION GUIDE

MOISTURISING COCOON CREAM

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INGREDIENT NAME	INCI	W.T %
AQUALGAE SACCHARINA*	SACCHARINA LATISSIMA EXTRACT & CITRIC ACID & SODIUM BENZOATE & POTASSIUM SORBATE	QSP 100%
OIL OF ALGAE*	VITIS VINIFERA SEED OIL & LAMNARIA DIGITATA EXTRACT & TOCOPHERYL ACETATE	20%
ALTER-EMULFABA*	ACACIA SENEGAL GUM & SCLEROTIUM GUM & HYDROLYZED CICER SEED EXTRACT	2%
PERFUME	PERFUME	0.8%
TREMEL+HA*	TREMELLA FUCIFORMIS POLYSACCHARIDE	0.10%

PROTOCOL

- Add ALTER-EMULFABA to aqualgae under deflocculating agitation.
- Heat at 45°C under agitation to 2000 rpm.
- Heat Oil of Algae at 45°C
- Pour Oil of Algae into the aqueous phase under rotor stator 3000 rpm during 10 min.
- Cool under deflocculating agitation (1500 rpm) to 30°C.
- Add Tremel+HA.



ALTER-EMULGEL

REF : J108

A NATURAL EMULSI-GELLING AGENT FROM PLANT EXTRACT

IDEAL TO FORMULATE GEL CREAM WITH SILICONE-LIKE FEELING.



100% NATURAL ACCORDING TO ISO 16 128 COSMOS COMPLIANT



OK CHINA



GOOD STABILITY



- Made from plant extract without surfactant
- A typical silicone-like feeling
- For textured, non greasy cream suitable for young skins.



PROPERTIES & USES

- **DOSAGE:**
Recommended to use at 1,3%.
- **PROPERTIES:**
To formulate O/W emulsions from 10% to 25% oil.

Formation of a nice gelly cream.

No soapy

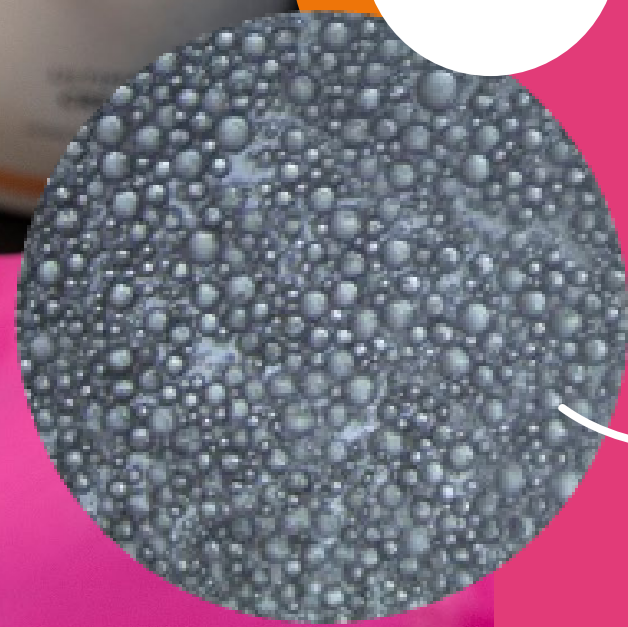


Figure : Optical microscope photo of an emulsion (10% oil, 1,3% Alter-Emulgel)

APPLICATION

Alter-Emulgel can be used in many kind of applications and offers a diversity of textures.

Texture according to oil pourcentage
(with 1,3% Alter-Emulgel)

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5% > 10%

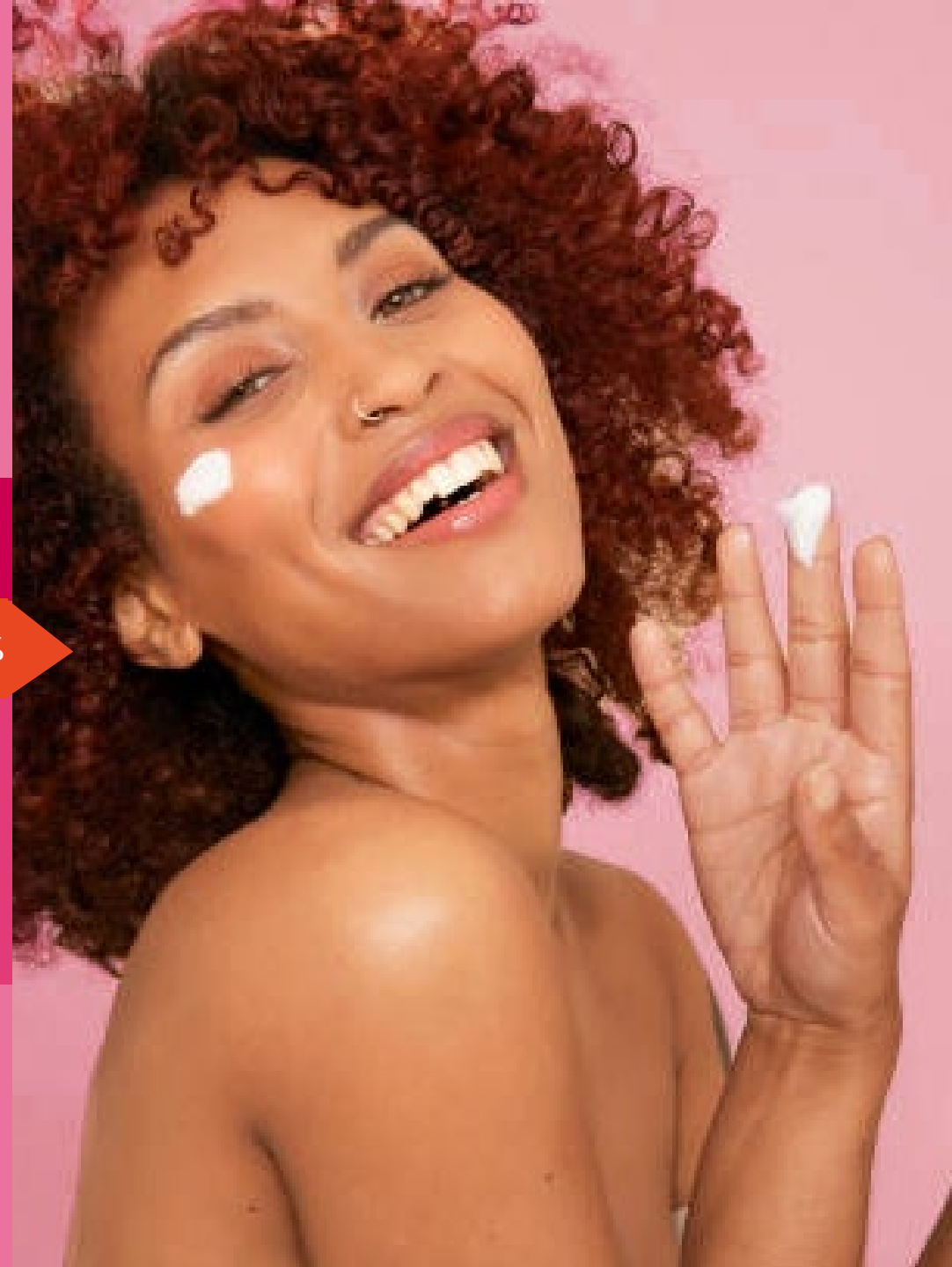
FLUID
Milk
Lotions

10% > 20%

LIGHT
Light cream
Foundation

20% > 25%

THICK
Thick creams
Butters
Masks

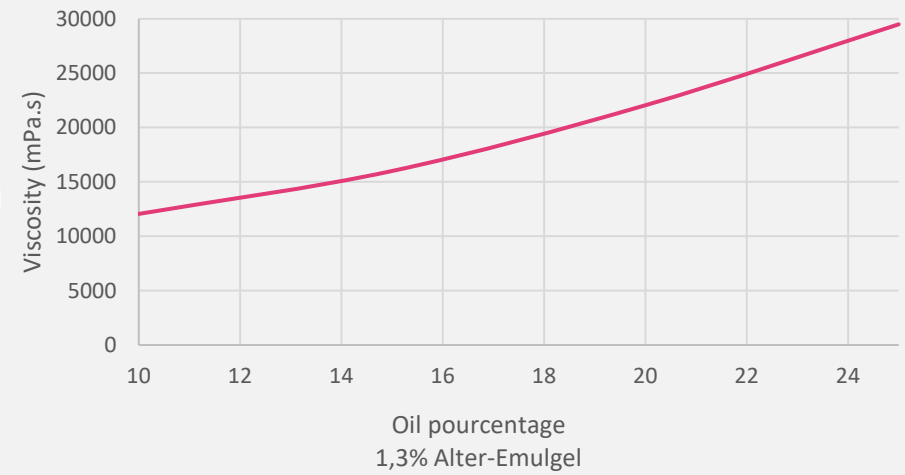




THICKENING CAPACITY



Viscosity according to oil pourcentage



Graph : *viscosity of an emulsion with 1,3% Alter-Emulgel according to oil concentration ; Emulsion with only water; preservatives, plant oils and 1,3% Alter-Emulgel*

SENSORY TREND

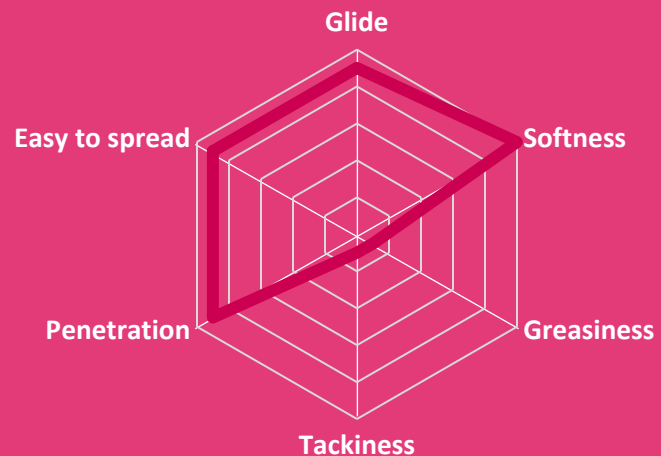
A typical **silicone-like skin feel**.

Emulgel gives a **very soft after-feel, without feeling greasy or sticky**.

SENSORIAL PROFIL

Graph : Sensory profil of an emulsion with 1,3% Emulgel, 10% oil.

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Sensory profil: no quantified results from a sensory study.



SENSORY STUDY

Comparative study between Alter-Emulgel and 2 emulsi-gelling agent from market :

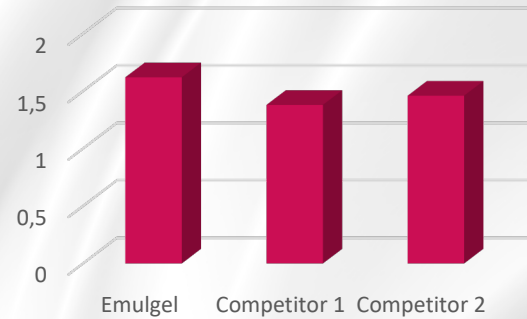
Competitor n°1 : « Sodium Acrylates Copolymer & Lecithin. »

Competitor n°2 : « sodium acrylate/sodium acryloyldimethyl taurate copolymer & aqua (water) & isohexadecane & polysorbate 80 & sorbitan oleate »

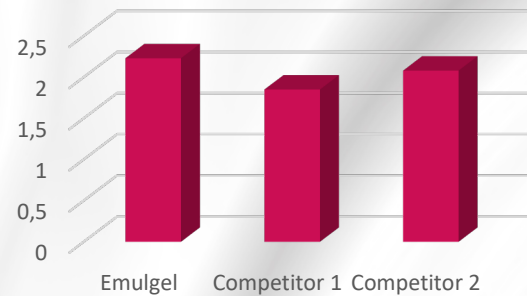
Alter-Emulgel is even **better than acrylates polymers** based emulsi-gelling agents.

Graph : comparaison 10% oil emulsions made from differents emulsi-gelling agents

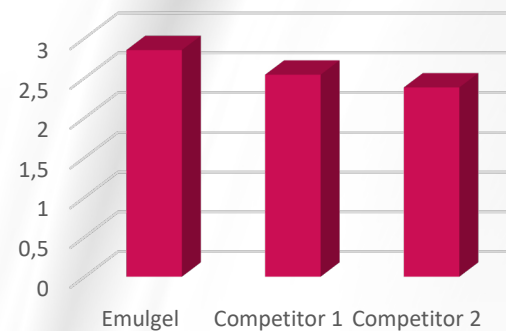
Softness



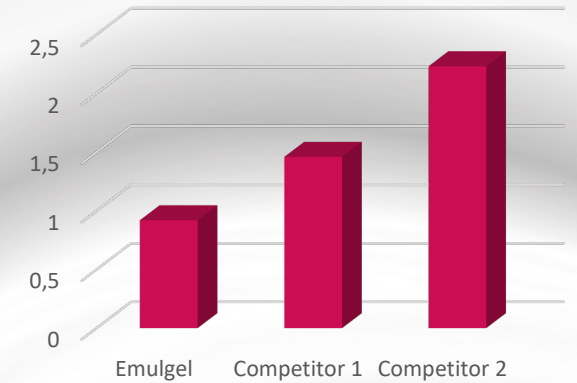
Penetration



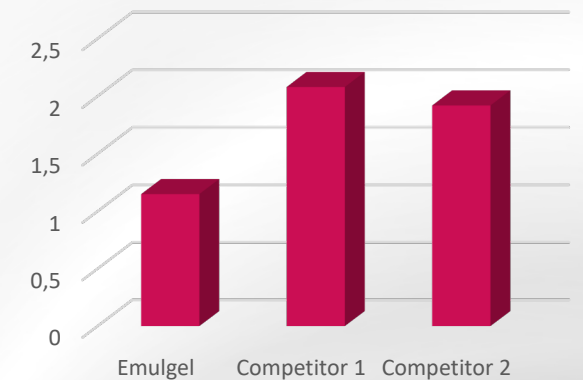
Glide



Tackiness



Greasiness



FORMULATION

- **Recommended 1,3%**
- **No predispersion - Disperse in water first with deflocculator turbine**
- **Non-shear sensitive**
- **Hot emulsification recommended (75°C-80°C)**
- **Add oil phase up to 25% at 1,3% Alter-Emulgel**

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SUSPENSIONS CAPACITIES

Alter-Emulgel used in emulsion at 1,3%, allows to suspend pigments.

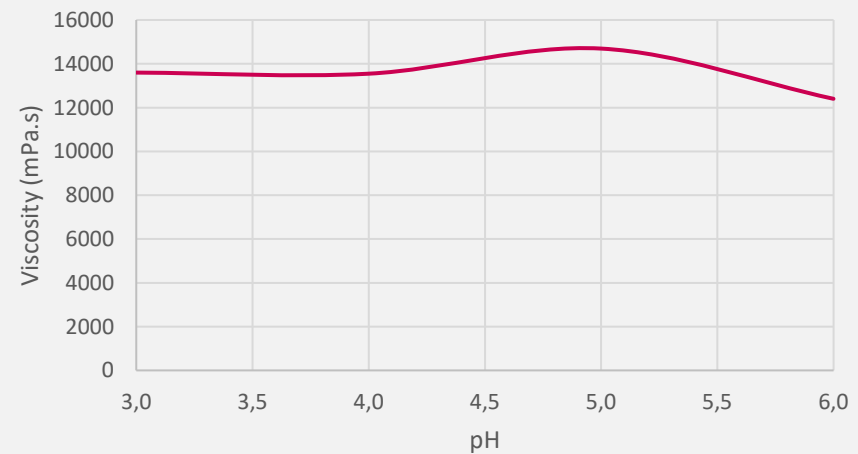
It can be used in make-up application for foundations...



COMPATIBILITIES

- Very optimum emulsion's stability in a range of pH from 3 to 6.

Viscosity according to pH

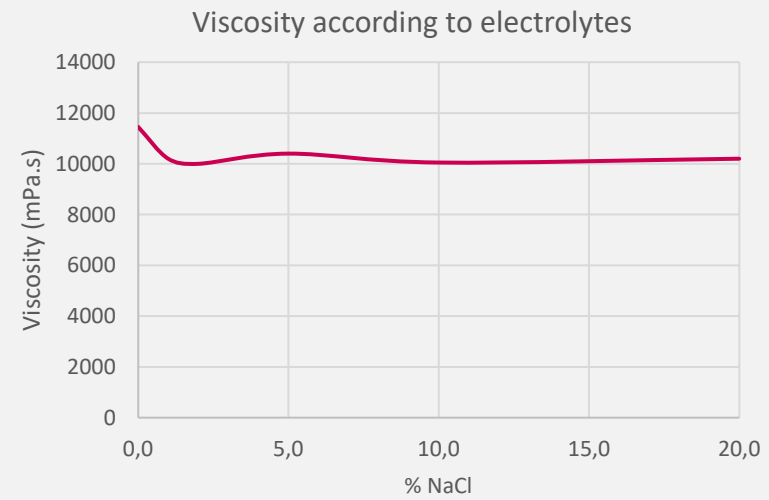


Graph : viscosity of a 1,3% Alter-Emulgel and 10% oil according to pH

- Naturally buffers an aqueous solution at pH 5.

COMPATIBILITIES

- Alter-Emulgel can emulsify media containing some electrolytes.



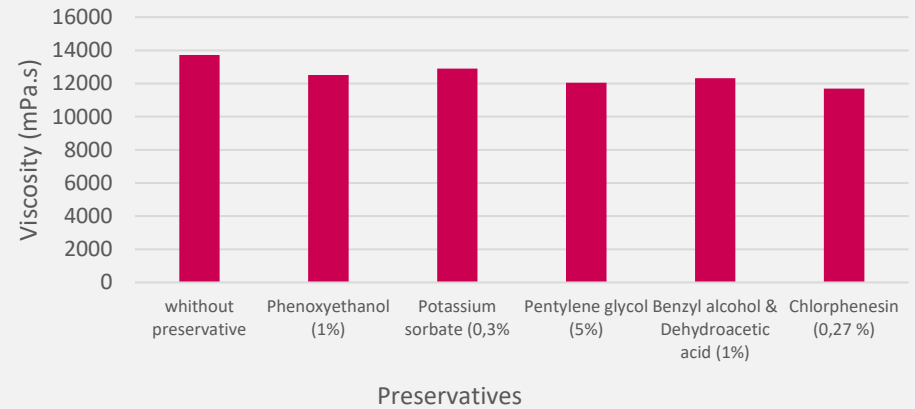
Graph : viscosity of a 1,3% Alter-Emulgel and 10% oil according to the quantity of electrolytes. % NaCl used.

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COMPATIBILITIES

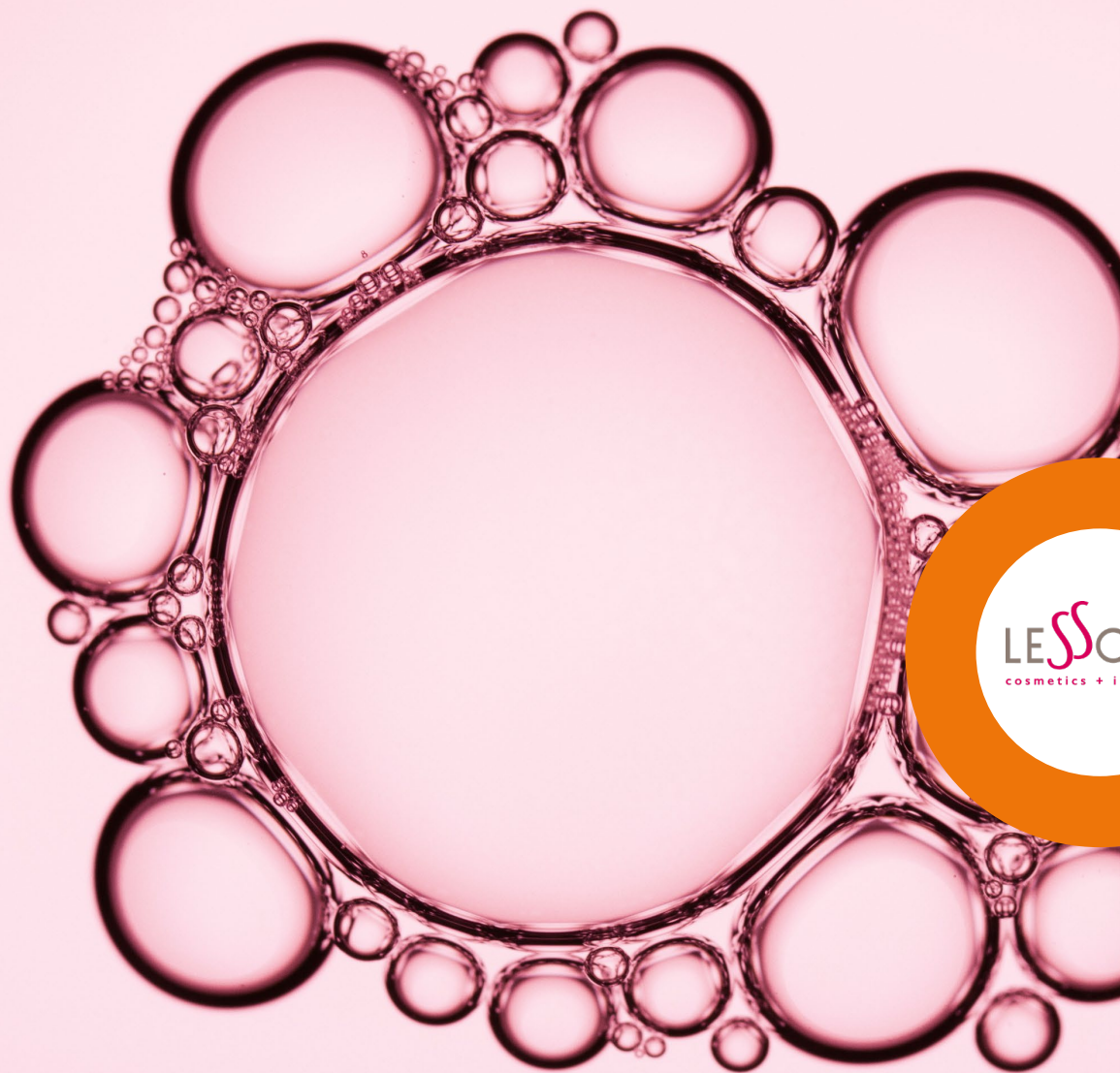
- Alter-Emulgel can emulsify media containing some preservatives.

Viscosity according preservatives used



Graph: viscosity of a 1,3% Alter-Emulgel and 10% oil according to preservatives used

- Also compatible with :
- Cationic agent
 - AHA (fruit acid)

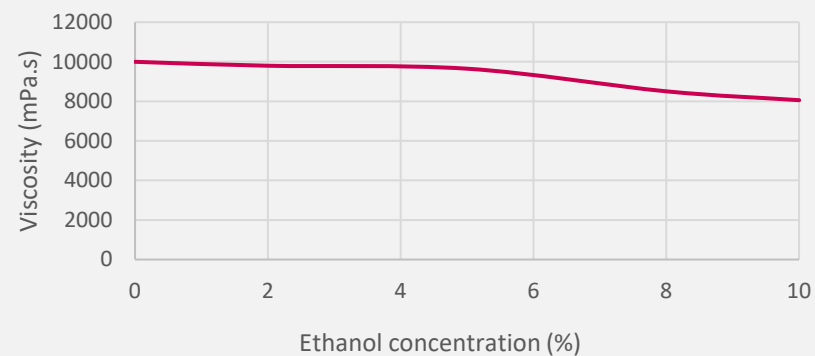


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COMPATIBILITIES

- Alter-Emulgel can emulsify media containing ethanol (until 10%)

Viscosity according to ethanol



Graph: viscosity of a 1,3% Alter-Emulgel and 10% oil according to

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ALTER- THICKBARLEY

REF : J101

THICKENING AGENT

**IDEAL TO OBTAIN THICKEN
CREAM**



**100% NATURAL ACCORDING
TO ISO 16 128
& COSMOS COMPLIANT**



OK CHINA



- An alternative to chemically modified starches
- A rich but not greasy texture
- A powdered feeling



INCI :

Hordeum vulgare seed flour

FUNCTION:

- **Thickener** : it allows to obtain thicken cream
 - **Emulsion stabilizer** : associated with an emulsifier, it allows to texturize and participate to the stability of the emulsion
-

APPARENCE:

White odorless powder



COMPOSITION

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A thermally modified barley starch

A green way to transform structure and physicochemical properties of barley starch.

A dry heating treatment at high temperatures is applied on native barley starch as a physical method for starch modification.

This heat treatment change the structure of barley starch. As a result :

- **Higher viscosity**
- **Gelatinization temperature decrease.**
- **Solubility increase**
- **Water and oil absorbtion increase.**





FORMULATION

GENERAL CHARACTERISTICS:

- Recommended dosage: around 5%.

PROTOCOL:

- To be incorporated into an emulsion to thicken and stabilize it.
- Heat at 80°C for 30 minutes.

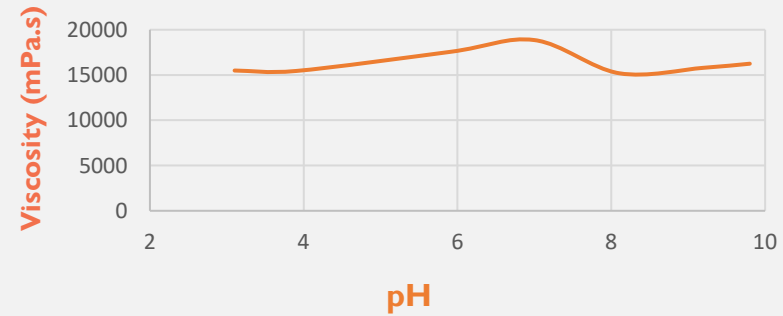


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COMPATIBILITIES

ALTER-THICKBARLEY is able to **thick aqueous media over a large pH range**

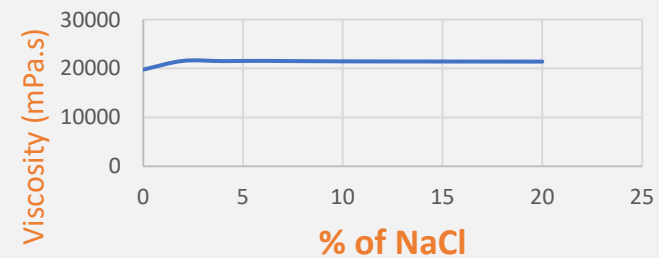
VISCOSITY ACCORDING TO PH



Graph : viscosity of an 10% aqueous ALTER-THICKBARLEY gel according to pH.

ALTER-THICKBARLEY is able to **thick media in presence of electrolytes**

THICKENING EFFECT IN THE PRESENCE OF ELECTROLYTES



Graph : viscosity of an 10% aqueous ALTER-THICKBARLEY gel according to electrolytes.

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FORMULATION GUIDE

TICK COCOON CREAM

INGREDIENT NAME	INCI	W.T %
AQUALGAE SACCHARINA*	SACCHARINA LATISSIMA EXTRACT & CITRIC ACID & SODIUM BENZOATE & POTASSIUM SORBATE	QSP 100%
OIL OF ALGAE*	VITIS VINIFERA SEED OIL & LAMINARIA DIGITATA EXTRACT & TOCOPHERYL ACETATE	20%
ALTER-THICKBARLEY	HORDEUM VULGARE SEED FLOUR	5%
ALTER-EMULFABA	ACACIA SENEGAL GUM & SCLEROTIUM GUM & HYDROLYZED CICER SEED EXTRACT	2%

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PROTOCOL

- Add ALTER-EMULFABA to aqualgae under deflocculating agitation.
- Heat at 80°C under agitation to 2000 rpm.
- Heat Oil of Algae at 80°C
- Pour Oil of Algae into the aqueous phase under rotor stator 3000 rpm during 10 min.
- Add ALTER-THICKBARLEY under agitation , heat to 80°C-85°C for 30 minutes.
- Cool under deflocculating agitation (1500 rpm) to 30°C.
- Adjust pH if necessary from 4,8 to 5,4.

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ALTER- GELIJAC

REF : J104

**HIGH VISCOSITIES
GELLING AGENT**

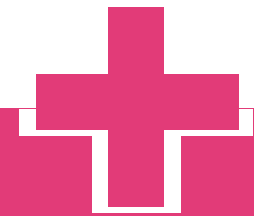
**IDEAL TO OBTAIN
COLORLESS GELS WITH
HIGH VISCOSITIES**



**100% NATURAL ACCORDING
TO ISO 16 128
& COSMOS COMPLIANT**



OK CHINA

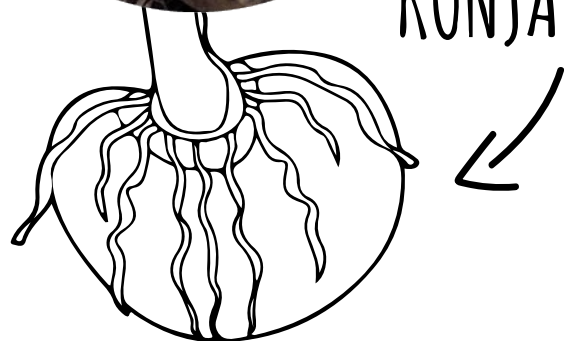


- A plant alternative to carbomers...
- For high viscosity gels
- Cold process
- Pleasant feeling (xanthan alternative)
- Fast dissolution : do not lump
- Good stability : pH, electrolytes, surfactants
- Thixotropic properties





KONJAC'S ROOTS



MANUFACTURING PROCESS :

ALTER-GELIJAC is obtained by grinding and extracting polysaccharides from the roots of the Amorphophalus konjac plant which is traditionally harvested in China.

INCI :

Glucomannan

APPARENCE:

White powder

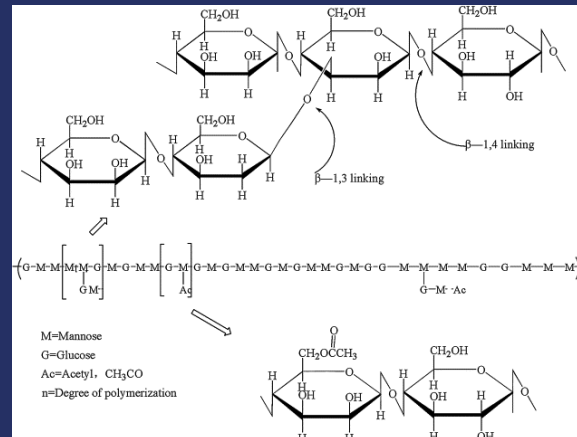


COMPOSITION

ALTER-GELIJAC is mainly composed of glucomanan (> 85%), a composition of two sugars: mannose and glucose.

**Gelling by water molecule retention.
It requires no pH variation, no electrolytes, no heat.**

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PROPERTIES & USES

PROPERTIES:

- Gelling of aqueous phases
- Can be used both cold and hot process
- Thickener for emulsions
- Emulsion stabilizer

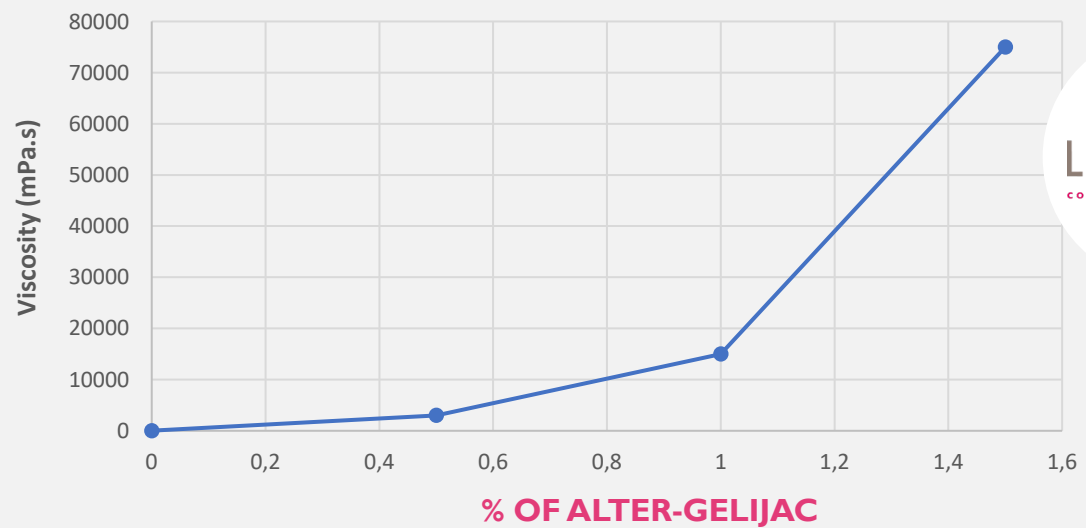
USES:

- Ideal to formulate shower gels, shampoos, slimming gels, freshness gel masks

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THICKENING CAPACITY

VISCOSITY EVOLUTION DEPENDING ON % OF ALTER-GELIJAC IN WATER



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Graph n°1 : Viscosity of aqueous ALTER-GELIJAC gel according to % used.



FORMULATION

GENERAL CHARACTERISTICS:

- Recommended dosage: from 0,5 to 1,5%.

PROTOCOL:

- To be incorporated into water both in cold or heat process.
- Not heat sensitive until 85°C.

Fast dissolution (do not lump) with immediate texture.



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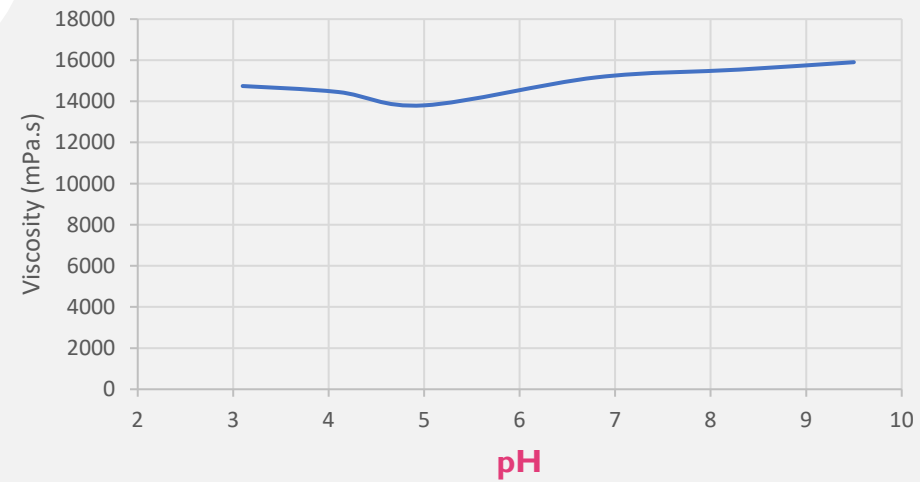
COMPATIBILITIES

THICKENING CAPACITY ACCORDING TO PH

ALTER-GELIJAC is able to thicken aqueous media over a very wide pH range, in highly acidic media and highly alkaline media (see graph below).

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VISCOSITY ACCORDING TO PH



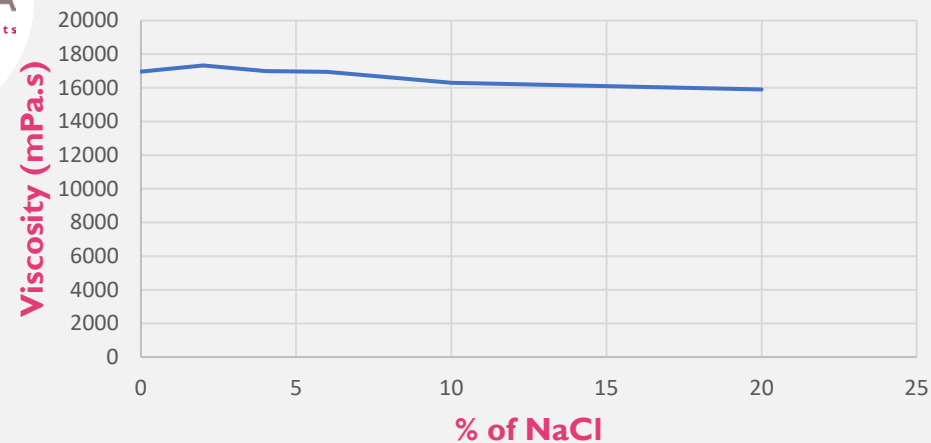
Graph n°2 : viscosity of an 1% aqueous ALTER-GELIJAC gel according to pH.

COMPATIBILITIES

ALTER-GELIJAC can thicken media containing some electrolytes.

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THICKENING EFFECT IN THE PRESENCE OF ELECTROLYTES



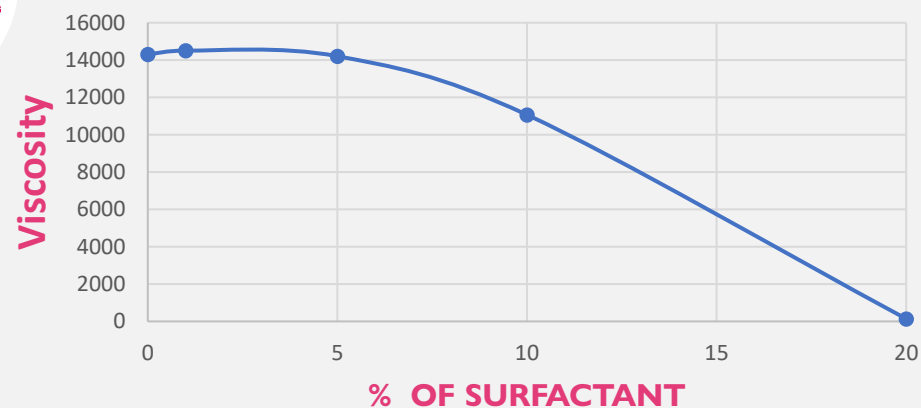
Graph n°3 : viscosity of a 1% ALTER-GELIJAC gel according to the quantity of electrolytes. % NaCl used.

COMPATIBILITIES

Compatible with Amphoteric surfactants until 10%

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VISCOSITY ACCORDING TO AMPHOTERE SURFACTANT



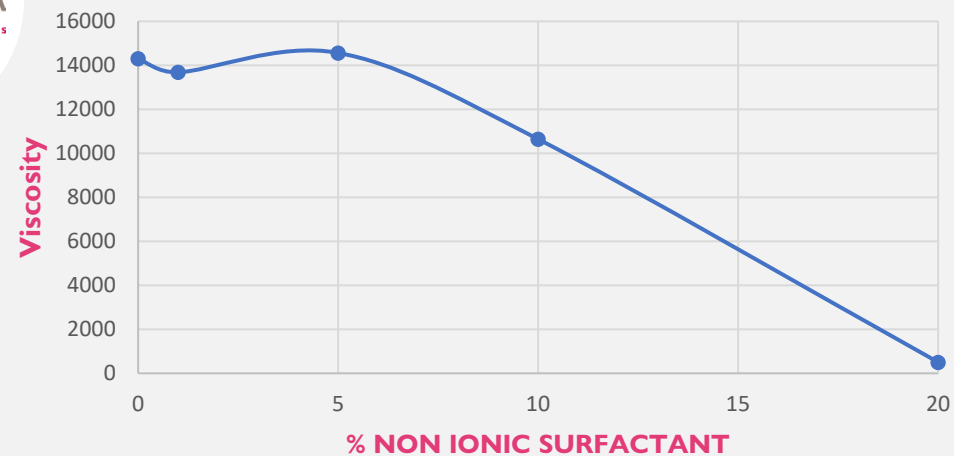
Graph n°4 : viscosity of a 1% ALTER-GELIJAC gel according to the quantity of amphotere surfactant ; The test was carried out with « cocamidopropyl betaine » surfactant.

COMPATIBILITIES

Compatible with Non-ionic surfactants until 10%.

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VISCOSITY ACCORDING NON IONIC SURFACTANT



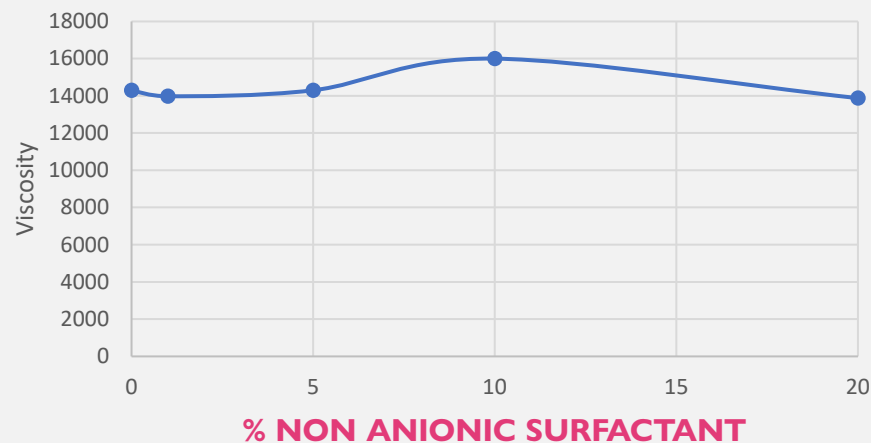
Graph n°5 : viscosity of a 1% ALTER-GELIAC gel according to the quantity of non ionic surfactant. The test was carried out with «caprylyl/capryl glucoside» surfactant.

COMPATIBILITIES

The viscosity of the gels obtained does not change over time; We observe a change in the appearance of the gel with 20% anionic surfactant concentration. The gel becomes more slimy.

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VISCOSITY ACCORDING TO ANIONIC SURFACTANT



Graph : *viscosity of a 1% ALTER-GELIJAC gel according to the quantity of anionic surfactant.*

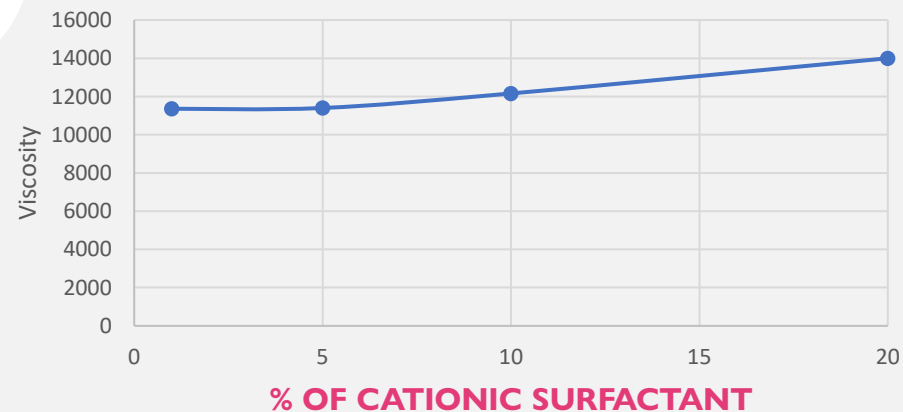


COMPATIBILITIES

ALTER-GELIJAC can thicken media containing cationic surfactant.

The viscosity of the gels obtained does not change over time.

VISCOSITY ACCORDING CATIONIC SURFACTANT



Graph n°7 : viscosity of a 1% ALTER-GELIJAC gel according to the quantity of cationic surfactant. The test was carried out with «Cetrimonium chloride» surfactant.





FORMULATION GUIDE

JELLY MASK

INGREDIENT NAME	INCI	W.T %
AQUALGAE UNDARIA	UNDARIA PINNATIFIDA EXTRACT CITRIC ACID SODIUM BENZOATE POTASSIUM SORBATE	94,58
MICROZEST 25 GARDENIA BLUE	MALTODEXTRIN GARDENIA FLORIDA FRUIT EXTRACT	0,02%
HEALTHYSKIN	GLYCERIN AQUA GIGARTINA STELLATA EXTRACT	1%
ALTER-GELIJAC	GLUCOMANNAN	1,8 %
FUCOREVERSE	GLYCERIN AQUA HYDROLYZED F-FUCOIDAN	1,5%
TREMEL+HA	TREMELLA FUCIFORMIS POLYSACCHARIDE	0,1%
GLYCERINE 48 I RSPO MB GREEN+	GLYCERIN	1%

PROTOCOL

- Mix aqualgae, Microzest gardenia blue.
- Add ALTER-GELIJAC powder at 2000 rpm for 10 min at room temperature.
- Prepare a premix glycerin and Tremel+HA
- Add Healthyskin, Fucoreverse, premix Tremel+HA/glycerin and mix gently.



FORMULATION GUIDE

KONJAC SHOWER GEL



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INGREDIENT NAME	INCI	W.T %
WATER	AQUA	QSP 100%
PLANTACARE 810 UP	CAPRYLYL/CAPRYL GLUCOSIDE	5,0%
TEGO BETAIN F 50	COCAMIDOPROPYL BETAINE	5,0%
ALTER-GELIJAC	GLUCOMANNAN	1,0 %
CITRIC ACID	CITRIC ACID	0,9%
PERFUME LAGUNE	PARFUM	0,2%
BENZYL ALCOHOL	BENZYL ALCOHOL	0,14%
SODIUM BENZOATE	SODIUM BENZOATE	0,1%

PROTOCOL

- Mix at room temperature all ingredients together for 20 minutes.
- You can also heat to 75°C for an even smoother texture.

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ALTER- GELITIUM

REF : J105

TRANSPARENT GELLING AGENT

IDEAL TO BRING
FILMOGENIC SENSORIALITY
OR EXTREMELY
TRANSPARENT GELS.

ALSO CAN BE USED AS A
CO-EMULSIFIER
OR A SUSPENSIVE AGENT.



**100% NATURAL ACCORDING
TO ISO 16 128
& COSMOS COMPLIANT**



OK CHINA



- **Very transparent gels**
- **Good stability (pH, electrolytes, surfactants...)**





MANUFACTURING PROCESS

Resulting from the fermentation of
the Sclerotium mushroom (Non
GMO)

FUNCTION:

- **Gelling agent:** texturizing to form very clear, transparent aqueous gels
 - **Co-emulsifier:** to stabilize emulsions thanks to the network formed between the oil droplets
 - **Suspensive agent**
-

INCI :

Sclerotium gum

APPARENCE:

White powder



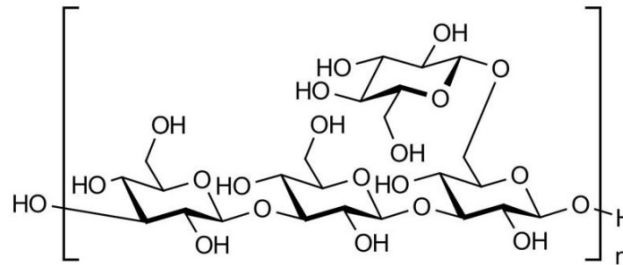
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COMPOSITION

ALTER-GELITIUM is a sclerotium gum. It is a non ionic polysaccharide containing glucose as the unique monomer. The molecular weight is around 5 Mdaltons.

This particular structure and the type of bonds Between the glucoses monomers explains the great stability.

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PROPERTIES & USES

PROPERTIES:

- Brings filmogenic sensoriality
- Brings great transparency to gels

Skin protection (film forming)

- A suspending agent
- Stabilizes emulsions

USES:

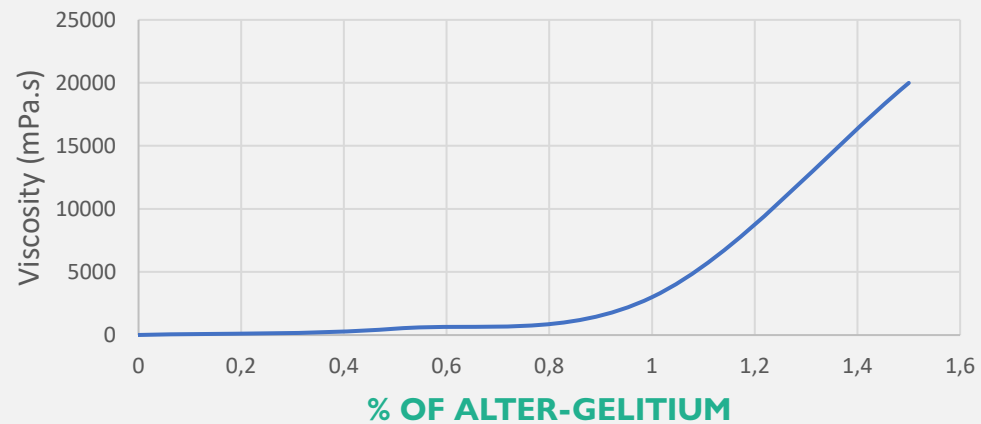
- Ideal to formulate skincare product suchs as face serum, lotion, cleansers, cream



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THICKENING CAPACITY

VISCOSITY ACCORDING TO ALTER-GELITIUM %



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Graph n°1 : Viscosity of aqueous ALTER-GELITIUM gel according to % used.



FORMULATION

GENERAL CHARACTERISTICS:

- **Dosage** : from 0,1 to 1,5 %

PROTOCOL:

- Incorporate the powder into the aqueous phase under agitation. To facilitate solubility, we recommend predispersing Alter-Gelitium in a glycol.
Mix for 30 minutes at 45°C or more.



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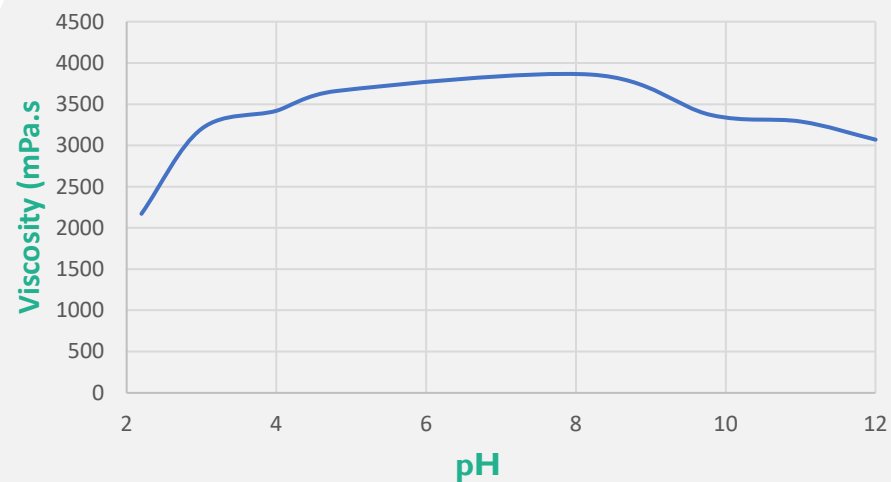
COMPATIBILITIES

THICKENING CAPACITY ACCORDING TO PH

ALTER-GELITIUM is able to thicken aqueous media over a very wide pH range, in highly acidic media and highly alkaline media (see graph below). We can consider that it is stable from a pH range from 3 to 9.

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VISCOSITY ACCORDING TO PH



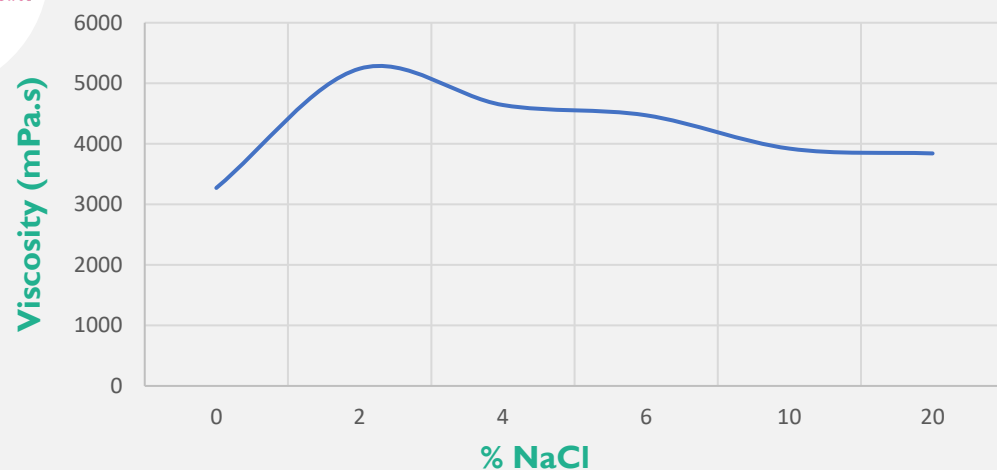
Graph n°2 : viscosity of an 1% aqueous ALTER-GELITIUM gel according to pH.

COMPATIBILITIES

ALTER-GELITIUM can thicken media containing some electrolytes.

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THICKENING EFFECT IN THE PRESENCE OF ELECTROLYTES



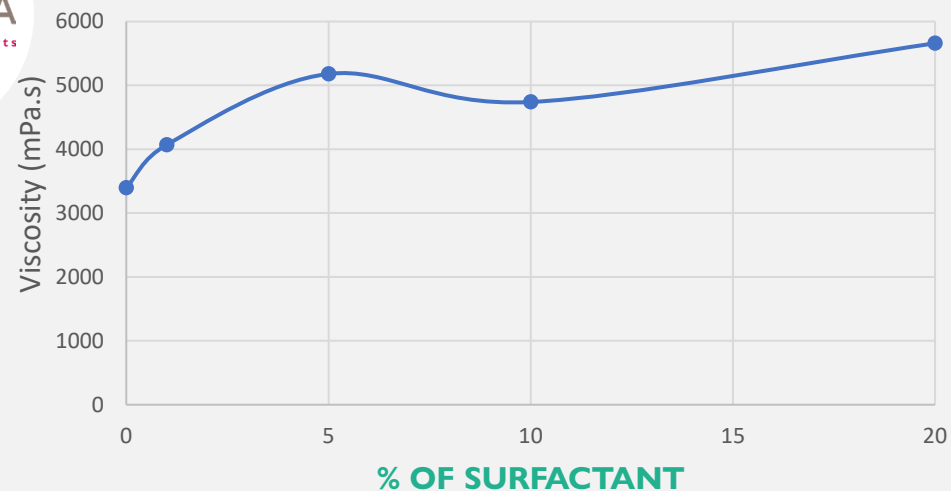
Graph n°3 : *viscosity of a 1% ALTER-GELITIUM gel according to the quantity of electrolytes. % NaCl used.*

COMPATIBILITIES

Although viscosity holds with amphoteric surfactants, gels lose a little bit their transparency.

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VISCOSITY ACCORDING TO AMPHOTERE SURFACTANT



Graph n°4 : viscosity of a 1% ALTER-GELITUM gel according to the quantity of amphotere surfactant ; The test was carried out with « cocamidopropyl betaine » surfactant.

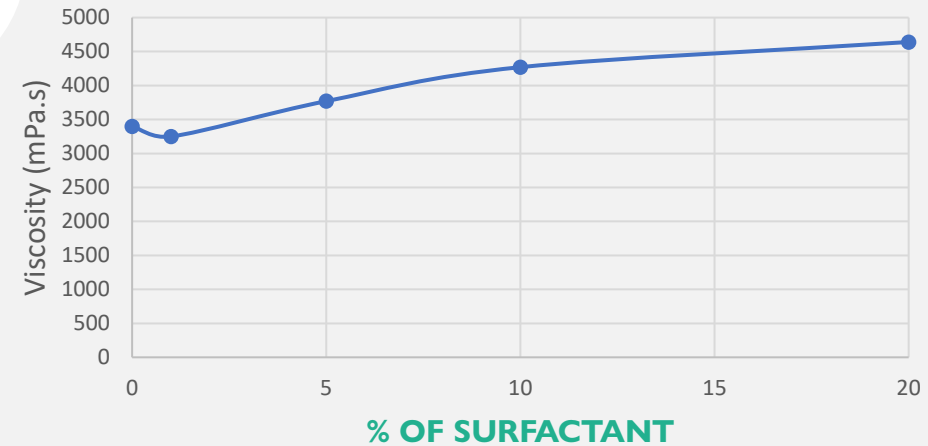
COMPATIBILITIES

ALTER-GELITIUM can thicken media containing non ionic surfactant.

The viscosity of the gels obtained does not change over time.

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VISCOSITY ACCORDING NON IONIC SURFACTANT



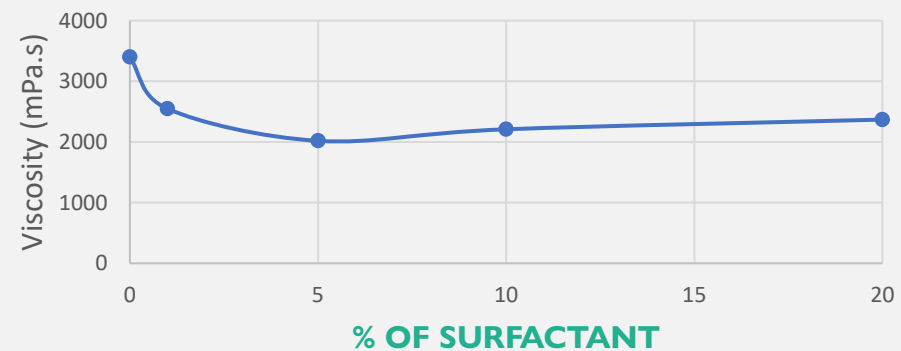
Graph n°5 : viscosity of a 1% ALTER-GELITIUM gel according to the quantity of non ionic surfactant. The test was carried out with «caprylyl/capryl glucoside» surfactant.

COMPATIBILITIES

Viscosity holds with anionic surfactants, but gels can lose a little bit their transparency.

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VISCOSITY ACCORDING TO ANIONIC SURFACTANT



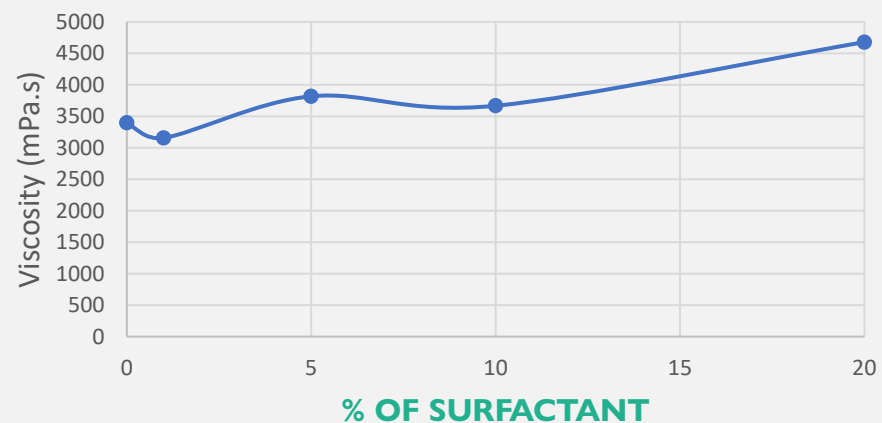
Graph n°6 : viscosity of a 1% ALTER-GELITIUM gel according to the quantity of anionic surfactant. The test was carried out with «Ammonium lauryl sulfate» surfactant.

COMPATIBILITIES

Although viscosity holds with cationic surfactants, gels can lose a little bit their transparency.

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VISCOSITY ACCORDING CATIONIC SURFACTANT



Graph n°7 : viscosity of a 1% ALTER-GELITIUM gel according to the quantity of cationic surfactant. The test was carried out with «Cetrimonium chloride» surfactant.

FORMULATION GUIDE

SENSORIAL FACE SERUM

INGREDIENT NAME	INCI	W.T %
AQUALGAE PALMARIA	PALMARIA PALMATA EXTRACT & CITRIC ACID & SODIUM BENZOATE & POTASSIUM SORBATE	QSP 100%
PROPANEDIOL	PROPANEDIOL	7,5%
PENTYLENE GLYCOL	PENTYLENE GLYCOL	5,0%
ALTER-GELITIUM	SCLEROTIUM GUM	0,5%
TEGOSOFT	POLYGLYCERYL-4-CAPRATE	0,45%
TREMEL+HA	TREMELLA FUCIFORMIS POLYSACCHARIDE	0,1%
PARFUM	PARFUM	0,03%

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PROTOCOL

- Mix ALTER-GELITIUM with Aqualgae. Heat to minimu 45°C for 20 minutes.
- Add all the other ingredients. We can recommend to premix Tremel+HA with pentylene glycol for a better dispersion.

ALTER
POW
DERS

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ALTER- TALCANIOC

REF : J103

HYDROPHOBIC
POWDER



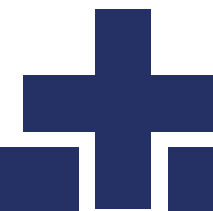
**71% NATURAL ACCORDING
TO ISO 16 128**



**INCI :
Cellulose acetate & tapioca starch**



OK CHINA



- **Alternative to talc**
- **Recommended for oily and acne-prone skin care products, makeup, dry shampoo, baby powder ...**

PROPERTIES & USES

PROPERTIES:

Can absorb more than 2 times of its weight in sebum

USES:

- Ideal for baby powders
- Make-up
- Touching agent

FORMULATION

GENERAL CHARACTERISTIC:

- Dosage : Up to 100%

PROTOCOL:

- Cold process
- Use pure or mixed with other powders



Water drop on
ALTER-TALCANIOC
powder



FORMULATION GUIDE

POWDERED MILK

INGREDIENT NAME	INCI	W.T %
WATER	AQUA	QSP
PROPANEDIOL	PROPANEDIOL	8,5
ALTER-TALCANIOC	CELLULOSE ACETATE & TAPIOCA STARCH	5,0
PENTYLENE GLYCOL	PENTYLENE GLYCOL	5,0
COPRAH OIL	COCOS NUCIFERA OIL	5,0
CAPRYLIC/CAPRIC	CAPRYLIC/CAPRIC TRIGLYCERIDE	2,0
S-FACE IS	POLYGLYCERYL-10 ISOSTEARATE	2,0
VANATURAL	BENTONITE	1,0
GLYCERIN	GLYCERIN	1,0
PARFUM	PARFUM	0,55
XANTHANE GUM	XANTHAN GUM	0,2
SODIUM BENZOATE	SODIUM BENZOATE	0,2
VITAMINE E	TOCOPHEROL, HELIANTHUS ANNUUS SED OIL	0,2
SODIUM HYALURONATE	HYALURONIC ACID	0,1

PROTOCOL

- Make a premix of aqueous phase and a premix of oily phase.
- Heat each phase to 55°C
- Pour the oil phase into the water phase.
- Emulsify for 10 minutes under stator rotor.
- Cool to 40°C and add one by one hyaluronic acid, vitamin E, parfum.
- Add ALTER-TALCANIOC under agitation.
- Adjust pH if necessary from 5,0 to 5,5.

FORMULATION GUIDE

PERFUMED BODY POWDER

INGREDIENT NAME	INCI	W.T %
ALTER-TALCANIOC	CELLULOSE ACETATE & TAPIOCA STARCH	95,0 %
PARFUM LAGUNE	PARFUM	5,0%

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PROTOCOL

- Gradually disperse the fragrance over the powder and blend in a mixer for 5 min.



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ALTER- MATTIFIER

REF : J107

A NATURAL INSTANT MATTIFIER

IDEAL TO ABSORBS EXCESS
SEBUM AND ELIMINATES SHINE
INSTANTLY



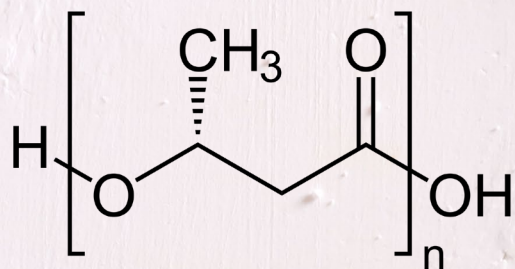
**NATURAL ORIGIN ACCORDING
TO ISO 16 128
COSMOS COMPLIANT**



**INCI :
PolyHydroxyButyrate**



- **Alternative to synthetic microplastic (banned by European regulation)**
- **Made from renewable origin**
- **Biodegradable**



Structure of PHB



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COMPOSITION

Alter-Matiffier is a **PHB very fine powder**. It is a polymer belonging to the polyesters class that are of interests as **renewable origin** and **biodegradable plastics**.

PHB is produced by microorganisms as a form of energy storage molecule.

APPARENCE:
White powder

INCI :
PolyHydroxyButyrate



MATTIFYING PROPERTIES

CLINICAL TEST :

- **Protocol:** 10 volunteers ; measure the amount of sebum on the forehead. 5% Alter-Mattifier emulsion on one side and its placebo on the other side.

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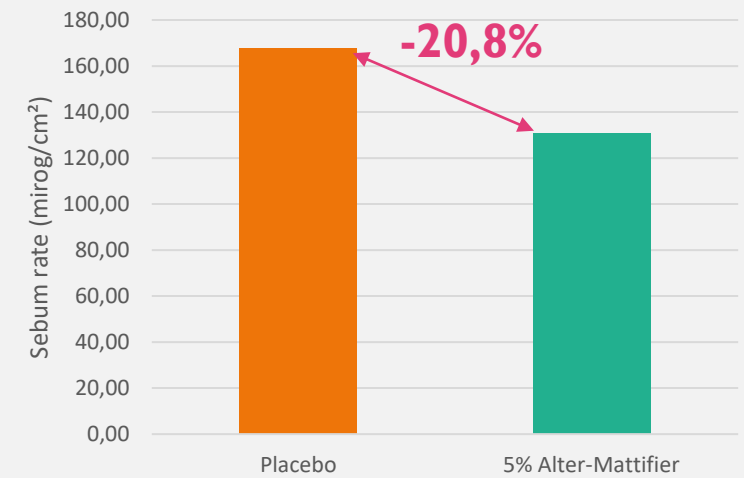
Placebo emulsion
on one side

5% Alter-Mattifier emulsion
on the other side

MATTIFYING PROPERTIES

RESULTS:

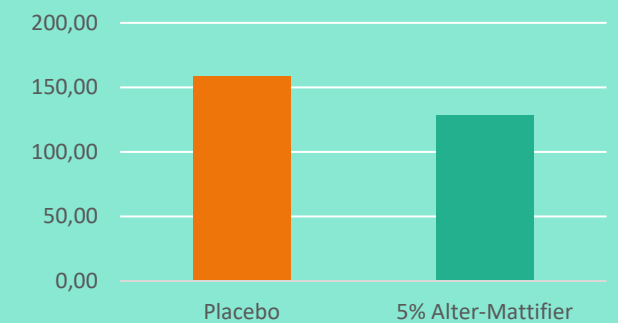
Used at 5% in emulsion, Alter-Mattifier absorb instantly sebum by 20,8%.



* Significantly different, $p = 0,0007$

No rebound in sebum secretion over time (results after 2 hours)

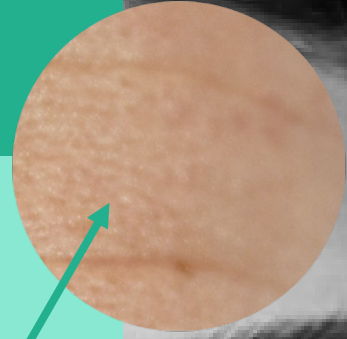
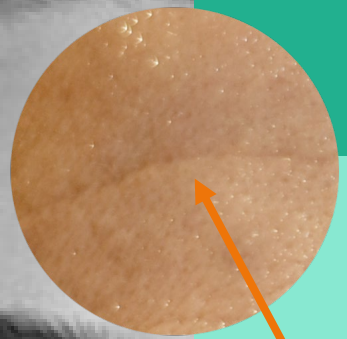
* Significantly different, $p = 0,0024$



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REMOVES SHINNING EFFECT



Comparative study on face

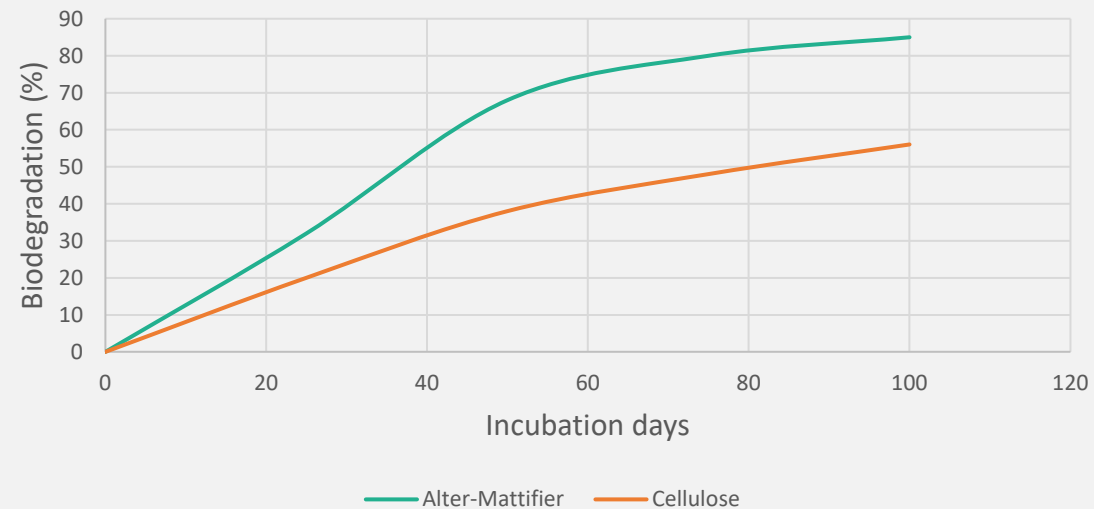
SUSTAINABILITY

Renewable origin : Bio fermentation material
produced from corn starch

**Biodegradable in seawater/sediment
interface according to ISO 19679**

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Alter-Mattifier biodegradability according ISO
19679



Exempt from microplastics restriction (EU 2023/2005)



PROPERTIES & USES

DOSAGE:

Few percents

PROPERTIES:

- Provides a natural mattifying effect in all types of skincare products
- Sebum absorption
- Imparts a soft and creamy aesthetic to powders, lotions and creams.

APPLICATIONS:

- Effective oil absorber on skin
- Ideal for formulations with heavy oil loading
- Oil absorbing powder for dry shampoos



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**THANK
YOU**



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