KCI

Sustainable Health & Beauty Life

SAMYANG

SINCE 1924

A Global Specialty Company for Sustainable Beauty

Since its establishment in 1985, Samyang KCI has grown into a trusted global specialty company serving the beauty and personal care industry through continuous innovation and technical expertise.

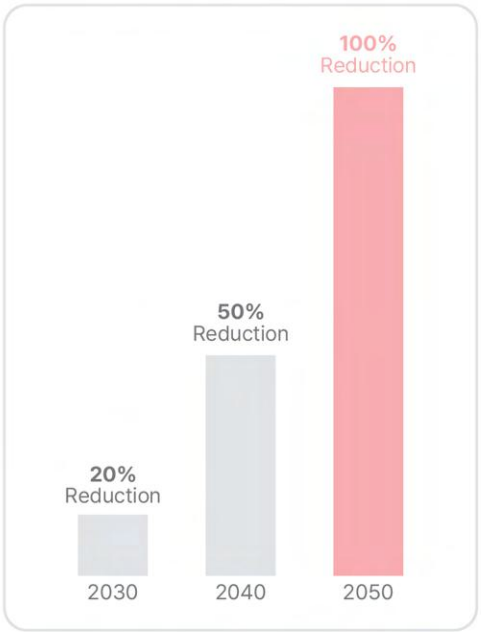
Guided by our ESG-driven management philosophy, we are committed to creating sustainable value through eco-conscious technologies, responsible operations, and ethical business practices. In response to global challenges such as climate change and the transition to a low-carbon economy, Samyang KCI continues to strengthen its foundation for sustainable growth.

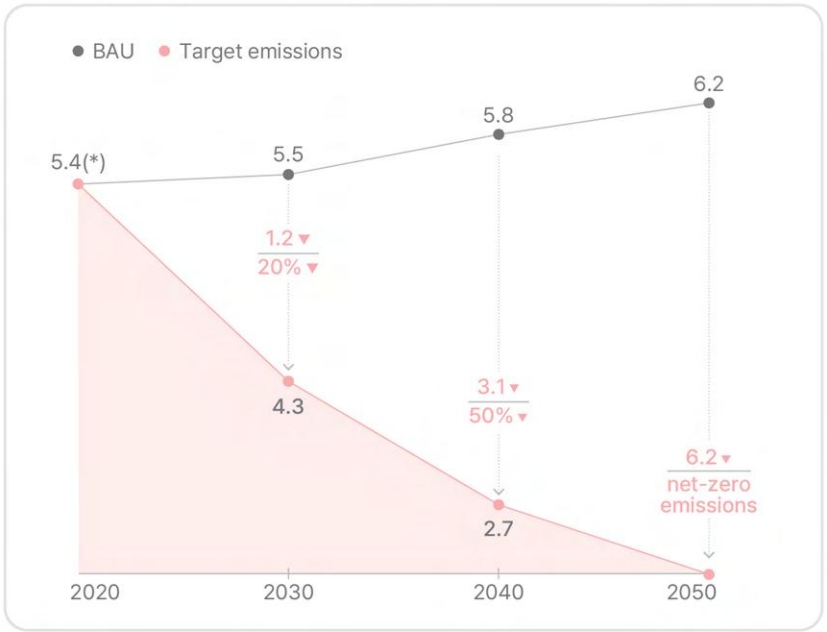
Aligned with Samyang Group's vision of achieving carbon neutrality by 2050, we actively implement ESG initiatives across our business and supply chain. These efforts have been recognized globally through the EcoVadis Platinum Medal for two consecutive years in 2025 and the Gold Medal in 2026.

Samyang KCI will continue to deliver innovative and sustainable solutions as a trusted partner for the future of beauty and personal care.

2050 Carbon Neutrality Roadmap

Samyang KCI has established a carbon neutrality roadmap targeting net-zero emissions by 2050, with phased greenhouse gas reduction goals based on 2020 levels.
Through systematic reduction strategies and regular performance reviews across all sites, we are minimizing environmental impact and strengthening sustainable growth and long-term competitiveness.





*Unit : kMT

Building Trust and Corporate Value through Sustainability

Leading the Market through Eco-Friendly Innovation

Expanding Customer Reach through Eco-Friendly Innovation

Certificates

Regulatory & Compliance

EU **REACH** Regulation

Halal Certification

COSMOS Approved

Quality Certification

ISO 9001
Quality management

EFfCI
The European Federation for Cosmetic Ingredient

World Class Product of Korea

Corporate Social Responsibility

RSPO
Roundtable on Sustainable Palm Oil

ISO 14001
Environmental Management System

CDP
Carbon Disclosure Project

ISO 45001
Occupational Health and Safety Management System

Sustainability Rate

PLATINUM Top 1% ecovadis Sustainability Rating JAN 2024

PLATINUM Top 1% ecovadis Sustainability Rating FEB 2025

GOLD | Top 5% ecovadis Sustainability Rating MAR 2026

Product Overview



Transdermal Delivery System

Encapguard™

Advanced Transdermal Delivery System encapsulates active ingredients such as Retinol, NMN, and GuaiAzulene, etc. in nano-sized carriers for stable and effective skin delivery. By enhancing absorption while minimizing irritation, it improves both product performance and formulation stability for advanced skincare applications.

MPC

MPC derivatives are biocompatible materials with a structure like the skin's cell membrane, providing excellent moisturizing performance and high skin affinity. They also help reduce protein adsorption and thrombus formation. With these unique properties, MPC derivatives are widely used in cosmetics, contact lenses, medical devices, textile materials, and biomedical polymer applications.





Active Delivery Enhancer

Kleensolve™ DMI

An EWG Green Grade ingredient based on plant-derived materials, designed to enhance active ingredient delivery while providing soothing and skin protection benefits. Suitable for skincare, sunscreen, and tanning formulations, it also offers reliable quality through Samyang Group's vertically integrated raw material system.

Rheology Modifier

Multicare

An emulsion-type rheology modifier composed of polymers, oils, and surfactants in a multifunctional polymer complex system. It provides excellent thickening, emulsifying, and solubilizing performance while enhancing sensory feel, making it ideal for a wide range of skincare and haircare applications.

Methyl Gluceth derivative

Methyl Gluceth derivatives are moisturizing ingredients derived from corn-based methyl glucose, offering excellent hydration and thickening performance. With low skin irritation and soft sensory feel, they are widely used in skincare, haircare, body wash, and even baby care formulations.





Sustainable Emulsifier

PGL Ester

PGL Esters are eco-friendly emulsifiers produced by esterifying polyglycerols with fatty acids, offering excellent emulsifying performance through adjustable HLB properties. With our differentiated technology, it provides outstanding solubilizing ability and enhanced sensory feel, making them ideal for a wide range of cosmetic formulations.

Moisturizer/Emollient

Moisturizer

PGL, Natural Oil, and Methyl Gluceth are plant-based moisturizing ingredients developed from naturally derived raw materials and sugar alcohols. They provide excellent moisturizing and skin conditioning benefits with low irritation, making them ideal for eco-friendly cosmetic formulations.

Emollient

Methyl Gluceth derivatives are moisturizing ingredients derived from corn-based methyl glucose, A naturally derived emollient produced by reacting fatty acids with alcohols, widely used in skincare formulations. Depending on the combination of fatty acids and alcohols, it provides various sensory profiles and multifunctional benefits such as thickening, dispersing, and cleansing performance.





Conditioning Polymer

Guar Polymer & PQ-10

Guar Polymer is an eco-friendly conditioning ingredient that provides excellent viscosity, smooth combability, and a soft sensory feel for shampoos and body washes.
PQ-10 is a cationic cellulose polymer that enhances hair moisturization, shine, and protection while improving combability and styling performance.

Cationic Agents

BTAC & BTMS

A quaternary conditioning ingredient derived from natural rapeseed fatty acids, widely used in hair conditioners and treatments. It provides excellent moisturization, shine, and anti-static benefits while improving hair manageability, and is trusted by global customers for its proven performance.



Skin Care



Active Delivery System

Skin care

- ✓ Encapguard™ ON Retinol
- ✓ Encapguard™ CAT NMN
- ✓ Encapguard™ Cera-FS GuaiAzulene

Efficacy	Active / Content	Description	Platform
Anti-wrinkle	Retinol / 5-10%, 50%	Improved stability / Reduced irritation / Advanced High-Dose	Encapguard™ ON
Cellular Activation	NMN / 10%	Improved stability / Enhanced efficacy	Encapguard™ CAT
Anti-inflammatory	GuaiAzulene / 0.5%	Improved stability / Reduced phototoxicity	Encapguard™ Cera-FS

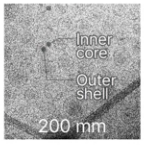
Encapguard™ ON Retinol

Liposome structure

- ✓ Double-shielded bilayer structure
- ✓ Positive charge for improved skin adhesion
- ✓ Retinol-Phytosphingosine interaction for high stability

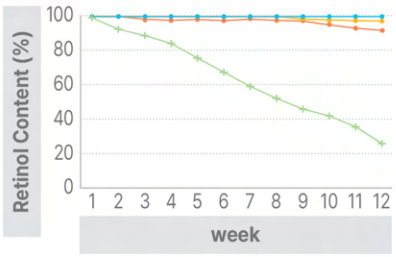


Schematic illustration



Cryo-TEM

Stability (HPLC)



Total collagen assay

>74%

Collagen production rate

45°C, 3 months

>90%

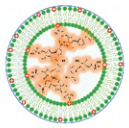
Retinol Content

- E. Retinol(45°C)
- E. Retinol(4°C)
- E. Retinol(25°C)
- Control(45°C)

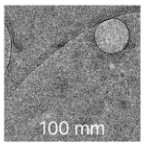
Encapguard™ CAT NMN

Liposome structure

- ✓ Cationic liposome for NMN encapsulation
- ✓ Positive charge lipids stabilize NMN
- ✓ Enhanced transdermal delivery

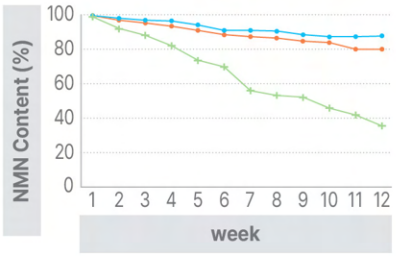


Schematic illustration



Cryo-TEM

Stability (HPLC)



ATP assay

>45%

ATP production rate

25°C, 3 months

>80%

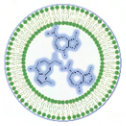
NMN Content

- E. CATNMN (25°C)
- Control (25°C)
- E.CAT NMN (4°C)

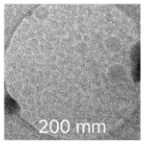
Encapguard™ Cera-FS GuaiAzulene

Liposome structure

- ✓ Ceramide-based skin-mimetic liposome
- ✓ Protects GuaiAzulene from light & oxidation
- ✓ Mimics skin lipid structure for better delivery

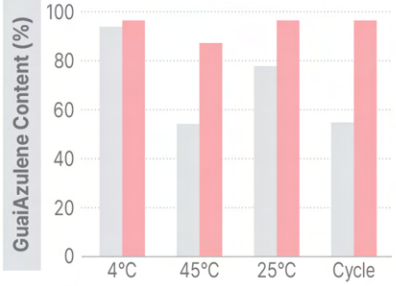


Schematic illustration



Cryo-TEM

Stability (HPLC)



Anti-inflammatory

>-14%

Reduction of NO,IL 6,IL 1β

45°C, 3 months

>85%

GuaiAzulene Content

- GuaiAzulene Solution
- Encapguard™ Cera-FS GuaiAzulene

What is Encapguard™

Skin care

Next-Gen Delivery
Liposome systems are now essential for maximizing active ingredient stability and skin absorption

Encapguard™ Solution
Samyang KCI offers integrated nanocarriers to streamline stabilization, formulation and commercialization

Proven Efficacy
Our Skin-Friendly technology unlocks the full potential of challenging active like Ceramides, Retinol, Vitamins

How Samyang KCI Encapguard™ contributes to the value chain of liposome skincare

Active Ingredients



-Vitamine -Retinol
-Ceramide -Peptide etc

Encapguard™



- Own Core Technology
- Optimized Delivery
- Enhanced Stability
- Sustained release design

R&D / Clinical Materials ▶ **Clinical Supply** ▶ **Commercial Manufacturing**

Encapguard™ Technology

Custom liposome platform for your unique formula and purpose



Platform / Type	Efficacy / Technical Differentiation
Flexible-some (Encapguard™ Cera FS)	✓ Enhanced delivery through a highly deformable vesicle structure ✓ Improved penetration and deposition for increased efficacy ✓ Particularly effective for poorly permeable and high-value bioactives
Ionic-some (Encapguard™ CAT, ON)	✓ Active-state control through ionic interactions ✓ Enhanced stability and controlled release for improved efficacy and reduced irritation ✓ Particularly effective for peptides, nucleic acid derivatives (e.g., PDRN), and unstable bioactive compounds.
MPC-Nanoparticle (Encapguard™ MPC)	✓ Active-exposure control through a biomimetic MPC shell ✓ Reduced irritation and improved skin compatibility while maintaining efficacy ✓ Particularly effective for retinoids, acids, and other irritation-prone bioactives

Value through Encapguard

Stability | Enhanced Delivery | Efficacy & Sensory | Clean & Sustainable

Encapguard™ portfolio of lipids for advanced liposome skincare

Lipid	Type	Origin (NOI index)	Skin affinity	Key benefits
Ceramide NP	Ceramide (Ceramide 3)	Naturally derived **NOI : 1.00**	High skin affinity	✓ Identical to skin ceramides ✓ Strengthens skin barrier & reduces TEWL ✓ Improves moisture retention and resilience
Phytosphingosine	Sphingoid base	Naturally derived **NOI : 1.00**	High skin affinity	✓ Natural component of skin lipids ✓ Supports ceramide synthesis ✓ Enhances barrier function & skin regeneration
Hydrogenated Lecithin	Phospholipid	Naturally derived **NOI : 1.00**	High skin affinity	✓ Excellent biocompatibility & stability ✓ Forms lamellar structures similar to skin ✓ Enhances delivery efficiency of active ingredients
Oleic acid	Fatty acid (Monounsaturated)	Naturally derived **NOI : 1.00**	High skin affinity	✓ Improves skin permeability ✓ Softens and smooths skin ✓ Enhances lipid fluidity of liposomes
Polyglyceryl-10 Stearte	Non-ionic emulsifier	Naturally derived **NOI : 1.00**	High skin affinity	✓ Mild & non-irritating, skin-friendly emulsifier ✓ Stabilizes liposome structure ✓ Improves texture and spreadability
Squalane	Hydrocarbon liqid	Naturally derived **NOI : 1.00**	Excellent skin affinity	✓ Highly biocompatible & non-comedogenic ✓ Provides long-lasting hydration ✓ Enhances skin suppleness & elasticity

* NOI (Natural Origin Index) : A global standard (ISO 16128) that quantifies the natural origin of cosmetic ingredient (0 = not natural origin, 1 = 100% natural origin).

What we can do with Encapguard™ Platform

Skin care

Efficacy	Active / Content	Form	Description	Platform
Skin Barrier Recovery & Moisturization / Skin Protection	Ceramide NP 1-10%	Liquid	Enhances skin barrier function, maintains moisture retention and improves skin protection	Encapguard™ Cera
	Ceramide NP 50%	Powder		
	Ceramide NP, AP, EOP 1-10%	Liquid	Skin lipid-mimetic ceramide complex for barrier recovery and sensitive skin improvement	
	Ceramide NP, AP, EOP 50%	Powder		
Anti-aging	Retinal 10%	Liquid	Improves wrinkles and promotes skin turnover	Encapguard™ ON
	Retinol 5% / 10% / 50%	Liquid	Low-irritation retino are system	
	NAD 10%	Liquid	Enhances cellular energy metbolism and ant-aging efficacy	
	CoQ10 10%	Liquid	Supports mitochondrial activation and improves skin vitality	
	Carnosine 5%	Liquid	Helps inhibit glycation and supports anti-aging benefits	Encapguard™ DMI
Skin Soothing & Redness Relief	GuaiAzulene 0.5%	Liquid	Soothes sensitive skin and reduces visible redness	Encapguard™ Cera
Antioxidant	Ascorbic acid 15%	Liquid	Enhances stability and skin delivery for antioxidant protection, collagen support, and visible anti-aging benefits.	Encapguard™ MPC
	Bisabolol 10%	Liquid	Provides soothing and anti-inflammatory effects	Encapguard™ Cera
	Idebenone 2%	Liquid	Strong antioxidant activity to help prevent skin aging	
	Ceramide NP 1% & Tocopherol 10%	Liquid	Synergistic antioxidant and skin-protective system	
	Tocopherol 20%	Liquid	High-content vitamin E antioxidant delivery system	Encapguard™ OL
Anti-acne & Sebum Control	Azelaic Acid 20%	Liquid	Helps control sebum production and provides brightening benefits	Encapguard™ MPC
Surfactant & Suspending Agent	Ceramide NP 1% & Sunflower Seed Oil 10%	Liquid	Skin-friendly oil-based moisturizing and barrier-enhancing system	Encapguard™ Cera
Skin Regeneration & Damage Repair	Vegetable PDRN 0.005%	Liquid	Promotes skin regeneration and recovery of damaged skin	Encapguard™ Cera
	EGF (sh-Oligopeptide-1) 1 ppm	Liquid	Enhances anti-inflammatory and skin-soothing efficacy	
	EGF (sh-Oligopeptide-1) 0.5 ppm & TGFβ1 (sh-Polypeptide-22) 0.5 ppm	Liquid	Low-dose, high-efficiency anti-inflammatory delivery system	
	TGFβ1 (sh-Polypeptide-22) 1 ppm	Liquid	Activates skin barrier function and regulates cellular signaling	
Moisturization & Skin Conditioning	Sunflower Seed Oil 20%	Liquid	Enhances skin conditioning and long-lasting moisturization	Encapguard™ OL
UV Protection	Phenyl Trimethicone 10%	Liquid	Improves sensory feel and forms a protective skin barrier	Encapguard™ OL
	Drometrizole Trisiloxane 10%	Liquid		

MPC Technology
– Multifunctional Biomimetic Agent

Skin care

MPC is a versatile compound used in skincare for its compatibility with human cell membranes. It acts as a potent hydrating agent, retaining moisture and promoting smooth skin. Additionally, MPC has anti-inflammatory properties, making it suitable for sensitive skin. Its multifaceted benefits make it a valuable ingredient in skincare & pharmaceutical formulations.

Product Name	Certification				INCI	Typical Properties		Application							
	Halal Certification	RSPO	COSMOS Approved	China Compliant		Form	Preservative	Shampoo	Hair Conditioner	Hair Styling	Shower gel	Skin cream/lotion	Facial cleanser	Sunscreen	Make-up
Hydroquat 510KC					Polyquaternium-51	Liquid	Phenoxyethanol								
Hydroquat 510STKC							Phenoxyethanol								
Hydroquat 510HDKC							1,2-Hexanediol								
Hydroquat 510BHKC							1,2-Hexanediol								
Hydroquat 510NPKC				●			N/A	●	●	●	●	●	●	●	●
Phosphomer® CELLOPC40CNKC					Hydroxyethylcellulose & Polyphosphorycholine Glycol Acrylate	Powder	N/A								
Phosphomer® CELLOPC401CNKC						Liquid	Phenoxyethnaol								
Phosphomer® CEM510CNKC					Carbomer & Polyphosphorylcholine Glycol Acrylate	Powder	N/A								
Phosphomer® ST610CNKC					Acrylates / C10-30 Alkyl Acrylate Crosspolymer & Polyphosphorylcholine Glycol Acrylate										

Medical: Eye Care & Pharmaceutical

Product Name	INCI	Features/Benefits	Form: Appearance
Icare B50KC Contact lens cleaning & storage solution	2-Methacryloyloxyethyl phosphorylcholine-n-butylmethacrylate copolymer	Superior biocompatibility of MPC technology enables to expand the applications from cosmetics to eye care & medical areas [Soft contact lens with MPC] ✓ Superior moisturizing effect ✓ Protein absorption inhibition ✓ Improving fitting sensory ✓ Hydrophilic surface formation	Liquid
Icare M100KC Contact lens	2-Methacryloyloxyethyl Phosphorylcholine		Solid
Medicare M100KC Medical devices & pharmaceuticals	2-Methacryloyloxyethyl Phosphorylcholine		

MPC Polymer in Personal Care

Moisturizing
- ✓ Strong water absorption
- ✓ Keeping water
- ✓ High moisture-binding capacity
- ✓ Long time duration of moisture content

Skin Barrier
- ✓ Protect skin from outside materials
- ✓ Improvement of stratum corneum
- ✓ Suppress skin irritation by surfactant

Sensory Effect
- ✓ High spread ability
- ✓ High film forming ability
- ✓ Good adhesion to the skin
- ✓ Low stickiness and reduce oily
- ✓ Make smooth skin without dryness

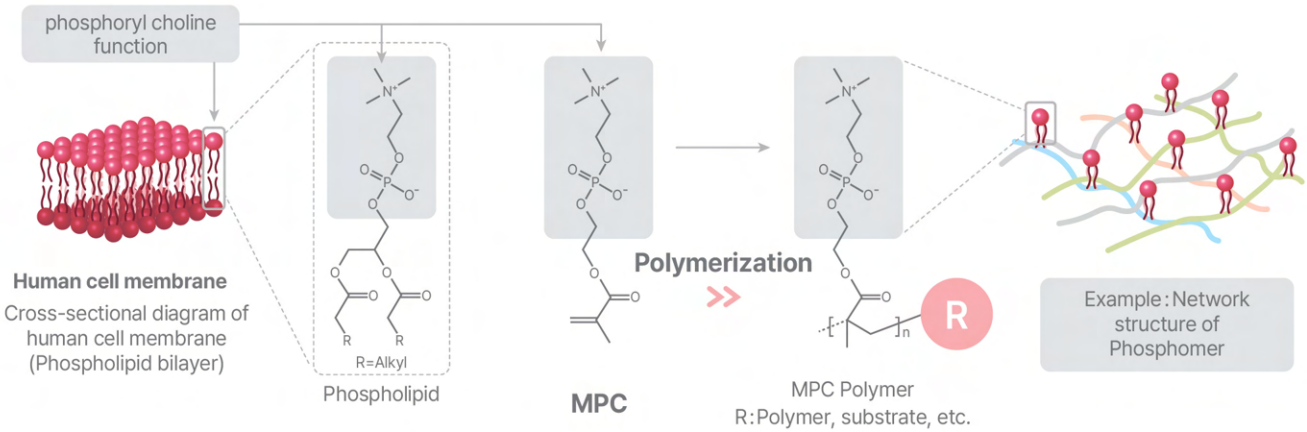
For Hair care
- ✓ Moisturizing
- ✓ Anti static electricity effect
- ✓ Restoration of damaged hair
- ✓ Protection of discoloration of dyed hair

MPC Polymer

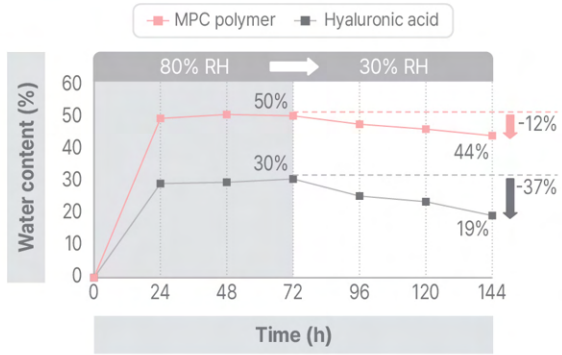
Skin care

MPC : 2-Methacryloyloxyethly Phosphoryl Choline

- ✓ Biomimetic Phospholipid-like Structure
- ✓ Superior Moisture Retention
- ✓ Luxurious & Unique Sensory Experience



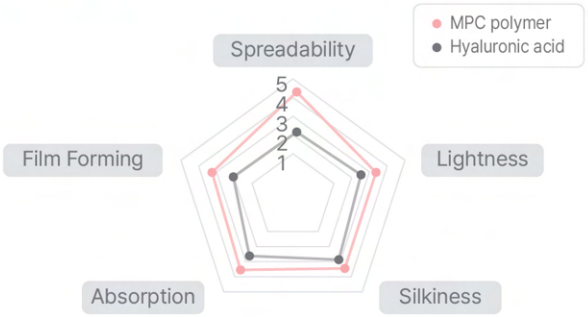
Change in moisture retention



MPC polymer retains more moisture than hyaluronic acid under low humidity.

*RH: Relative Humidity

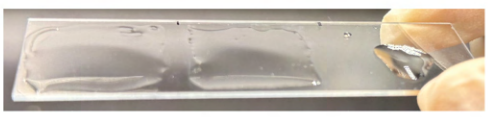
Sensory



MPC polymer Sensory
Excellent spreadability / Uniform film-forming / Light feel / Fast absorption / Soft and Smooth Skin feel

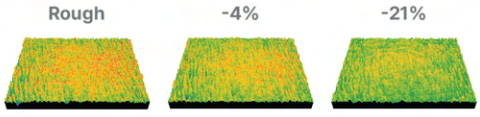
Film forming

Spread Film



Hydroquat series **Phosphomer CelloPC** Hyaluronic acid

Skin Roughness Test (4h)



Non-treated Hyaluronic acid **MPC polymer**

MPC polymer fills in pores and fine lines to make your skin appear smoother. (Clinical test)

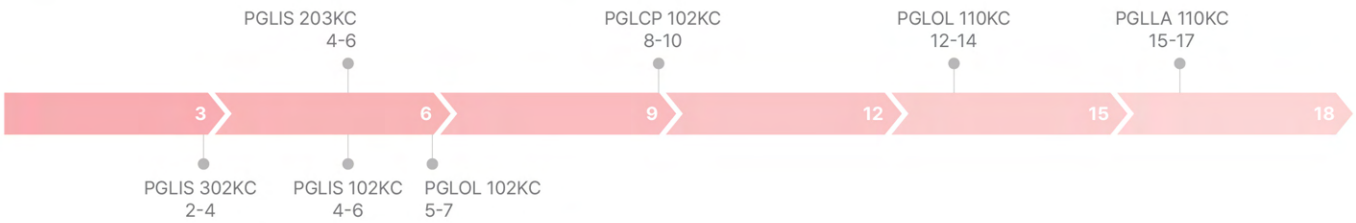
PEG-Free Emulsifier & Solubilizer Skin care

Polyglyceryl Esters are highly valued for their remarkable abilities. Acting as emulsifiers, they ensure stable mixtures of water and oil-based ingredients, enhancing the overall texture and performance of products. Moreover, their solubilizing properties enable the dispersion of hydrophobic substances, ensuring even distribution and efficacy. Notably, these esters also excel as moisturizers, imparting hydration to the skin. Their compatibility with a diverse array of ingredients makes them versatile tools for formulators, while their biodegradable nature aligns with the increasing emphasis on sustainability.

Product Name	Certification			INCI	HLB	Form	Application							
	RSPO	COSMOS Approved	China Compliant				Shampoo	Hair Conditioner	Hair Styling	Shower gel	Skin cream/lotion	Facial cleanser	Sunscreen	Make-up
PGLIS 302KC				Polyglyceryl-2 Triisostearate	2 - 4	Liquid	●	●	●	●	●	●	●	●
PGLIS 203KC		●	●	Polyglyceryl-3 Diisostearate	4 - 6									
PGLIS 102KC				Polyglyceryl-2 Isostearate	4 - 6									
PGLPH 202KC			●	Polyglyceryl-2 Dipolyhydroxy Stearate	5 - 6									
PGLOL 102KC		●	●	Polyglyceryl-2 Oleate	5 - 7									
PGLCP 102KC			●	Polyglyceryl-2 Caprate	8 - 10									
PGLCP 102KC RSPO MB	●	●	●	Polyglyceryl-2 Caprate										
PGLIS 210KC				Polyglyceryl-10 Diisostearate	10 - 12									
PGLOL 110KC		●	●	Polyglyceryl-10 Oleate	12 - 14									
PGLLA 210KC				Polyglyceryl-10 Dilaurate	12 - 14									
PGLCP 104KC			●	Polyglyceryl-4 Caprate	13 - 15									
PGLLA 110KC				Polyglyceryl-10 Laurate	15 - 17									



HLB



PGLLA 110KC-Plus

Skin care

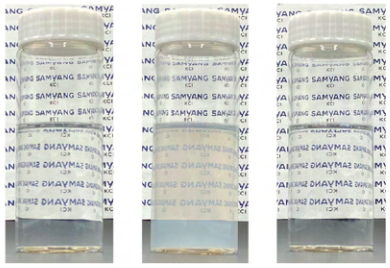
A Superior Alternative to PEG
Next-Generation High-Performance Solubilizer

PGLLA 110KC-Plus, an upgrade from the original PGLLA 110KC, maximizes both solubilization efficiency and premium sensory feel. It ensures crystal-clear formulations with outstanding cold stability, fast absorption, and lower stickiness.

100% Natural Origin / EWG Green Grade



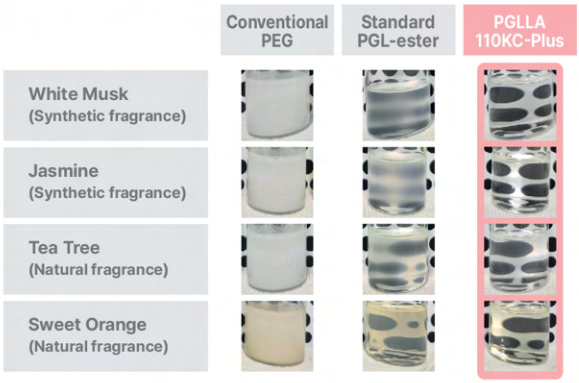
Solubilization Test



Turbid	Cloudy	Clear
Conventional PEG	Standard PGL-ester	PGLLA 110KC-Plus

Test Condition: Fragrance(Sweet Orange) 0.05%, Solubilizer 0.25% ,Polyol 0.5% Evaluated at 25°C immediately after solubilization

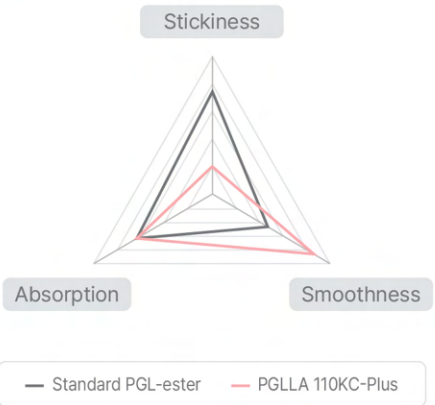
Cold Process Test Results



Hot Process VS.

- Process Time : 40-60% reduction
- CO_2 Emission : 22-26% reduction
- Energy : Up to 82% less

Criteria	Conventional PEG	Standard PGL-Ester	PGLLA 110KC-Plus
Solubilization Efficiency	High	Low	**High**
Sensory Feel	Smooth	Sticky	**Less-sticky**
Cold Stability	Good	Cloudy	**Stable**
Manufacturing Process	Hot Process	Hot Process	**Cold Processable / CO_2 Reduction**
Origin & Sustainability	Synthetic / 1,4-Dioxane Risk	Petrochemical-Derived	**Plant-Derived**
Recommended Applications	Skin toner, Mist, Cleansing water, High-performance essence		

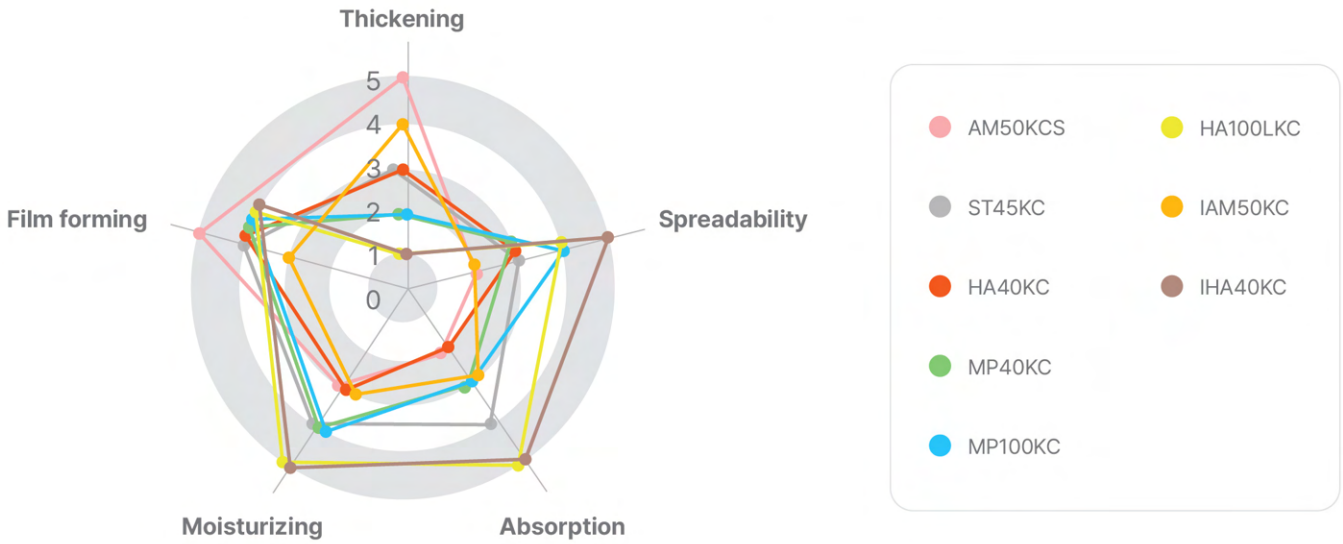


Rheology Modifier Multifunctional Polymer –
Emulsifier, Thickener & Texturizer

Multifunctional Polymers are commonly used in almost all kinds of personal care products. They are ready to use, pre-neutralized polymers that can be used in cold processes and can tolerate a wide range of pH levels. They are also able to emulsify almost all kinds of oils and gelate easily with moderate shear.

Product Name	Certification				INCI	Typical Properties		Application							
	Halal Certification	RSPO	COSMOS Approved	China Compliant		Form	Active Substance (%)	Shampoo	Hair Conditioner	Hair Styling	Shower gel	Skin cream/lotion	Facial cleanser	Sunscreen	Make-up
Multicare AM50KCS Rich, Soft				●	Polyacrylamide & C13-14 Isoparaffin & Laureth-7	Liquid	45 - 49	●	●	●	●	●	●	●	●
Multicare HA40KC Light, Fresh				●	Hydroxyethylacrylate/Sodium/Acryloyldimethyltaurate Copolymer & Hydrogenated Polydecene & Polysorbate 80	Liquid	26 - 30	●	●	●	●	●	●	●	●
Multicare HA100LKC Light, Fresh		●		●	Hydroxyethylacrylate/Sodium Acryloyldimethyltaurate Copolymer	Powder	90 - 100	●	●	●	●	●	●	●	●
Multicare ST45KC Light, Soft					Sodium acrylate/Sodium Acryloyldimethyltaurate Copolymer & Isohexadecane & Polysorbate 80	Liquid	44 - 48								
Multicare MP40KC Soft, Smooth EO-free					Sodium Poly Acryloyldimethyl taurate & Dicaprylyl Ether & Polyglyceryl 10 Dilaurate	Liquid	49 - 53								
Multicare MP100KC Soft, Smooth EO-free				●	Sodium Poly Acryloyl dimethyltaurate & Polyglyceryl 10 Dilaurate	Powder	90 - 100								
Multicare IAM50KC Rich, Soft					Acrylamide/Sodium Acryloyldimethyltaurate Copolymer & Isohexadecane & Polysorbate 80	Liquid	45 - 49	●	●	●	●	●	●	●	
Multicare IHA40KC Light, Fresh		●		●	Hydroxyethylacrylate/Sodium Acryloyldimethyltaurate Copolymer & Isohexadecane & Polysorbate 60	Liquid	35 - 50								
Multicare MA50KC				●	Polyquaternium-37 & Propylene Glycol Dicaprylate/ Dicaprate & PPG-1 Trideceth-6	Liquid	48 - 52	●	●	●	●	●	●	●	●

Select the polymer based on its sensory profile



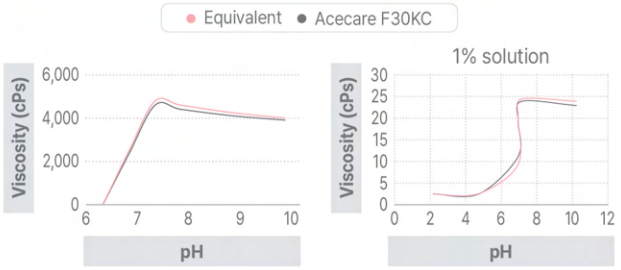
Rheology modifier

Skin care

Rheology modifiers are essential for controlling how cosmetic products feel and behave. They ensure that products spread smoothly and evenly when applied and thickens formulations like creams and gels. Products such as PEG-18 glyceryl Oleate/ Cocoate and PEG-120 Methyl Glucose Dioleate prevent ingredients from separating and help maintain a consistent texture. By managing the flow properties of cosmetics, these modifiers enhance their performance, texture, and overall user experience, meeting the varied expectations of consumers across different product types like creams, lotions, and serums.

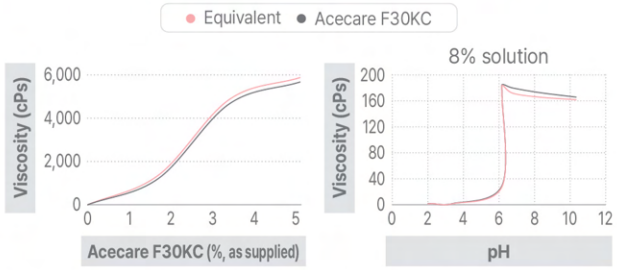
Product Name	Certification				INCI	Form	Application							
	Halal Certification	RSPO	COSMOS Approved	China Compliant			Shampoo	Hair Conditioner	Hair Styling	Shower gel	Skin cream/lotion	Facial cleanser	Sunscreen	Make-up
ACEcare F30KC	●			●	Acrylates Copolymer	Liquid	●	●	●	●	●	●	●	●
Glyco 171KC				●	PEG-18 Glyceryl Oleate/Cocoate		●	●	●	●	●	●		
Methyl Gluceth DOE 120KC	●	●		●	PEG-120 Methyl Glucose Dioleate	Flake	●	●	●	●	●	●		
Phosphomer® CEM510CNKC				●	Carbomer & Polyphosphorylcholine Glycol Acrylate	Powder	●	●	●	●	●	●	●	●
Phosphomer® ST610CNKC					Acrylates/C10-30 Alkyl Acrylate Crosspolymer & Polyphosphorylcholine Glycol Acrylate		●	●	●	●	●	●	●	●

ACEcare F30KC : Basic viscosity properties in water



1% active polymer (3.3% as supplied) in water (Brookfield RVT@ Spindle #4, 20rpm)

ACEcare F30KC : pH Effect on viscosity



Acecare F30KC in water, pH 7.2 (Brookfield RVT@ Spindle #4, 20rpm)

Rheo-DP100

Rheo-DP100(Dextrine Palmitate) is a sustainable, 100% plant-based rheology modifier (polysaccharides & plant oils) that forms stable oil gels. It enhances viscosity, spreadability, and W/O emulsion stability for skincare, makeup, and sun care formulations, backed by Derma Test and Vegan certifications.

Applications / Uses

- **Makeup products** → Lipsticks, lip glosses, eye shadows, mascaras
- **Skin care products** → Cleansing balm, deodorants, massage oils antiperspirants
- **Sun care products** → Sunscreens, sunsticks
- **Hair care products** → Conditioners, styling creams

Oil Compatibility

Subject	Transparency	Strength
Mineral oil	○	◎
Cetyl ethylhexanoate	○	◎
Caprylic capric triglyceride	○	◎
Pentaerythrityl tetraethylhexanoate	△	◎
Isododecane	○	◎
Heptyl undecylenate	○	◎
Neopentyl glycol dicaprylate/dicaprate	○	◎

Transparency	Strength
◎ Transparent	◎ Strong
○ Translucent	○ Medium
△ Opaque	△ Weak

Active Delivery Enhancer & Solvent Skin care

DMI serves as both an active delivery enhancer and solvent in skincare formulations, ensuring excellent performance, especially with DHA. It aids in the penetration of active ingredients into the skin, enhancing their effectiveness, while also serving as a solvent to decrease viscosity. Its multifunctional role makes it indispensable in skincare products, optimizing ingredient delivery for superior results.

Product Name	Certification				INCI	Typical Properties		ISO 16128	Application							
	Halal Certification	RSPO	COSMOS Approved	China Compliant		Form	Active Substance (%)	NOI	Shampoo	Hair Conditioner	Hair Styling	Shower gel	Skin cream/lotion	Facial cleanser	Sunscreen	Make-up
Kleensolve™ DMI				●	Dimethyl Isosorbide	Liquid	98% Min.	0.828			●	●	●	●	●	●

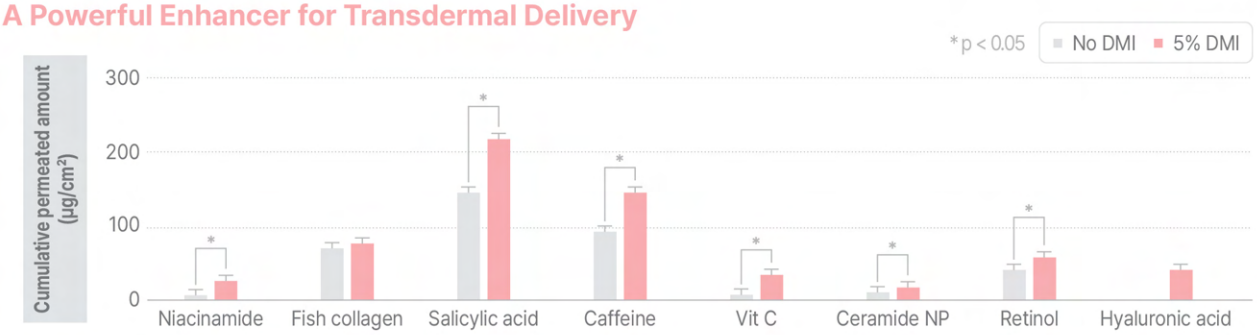
The use of DMI reduces the content of the DHA in formulation, but the tanning effect increases

Tanning effects in mixed formulations of 3% DHA and DMI were better than formulations using 5% DHA alone.

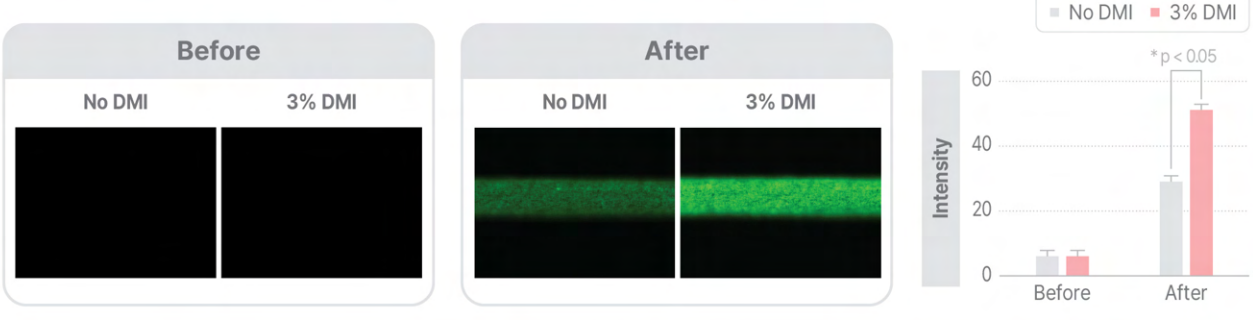


#1: cream formulation containing 5% DHA (Dihydroxyacetone)
#2~4: Control: cream formulation containing 3% DHA + 1% DMI (#2), 2% DMI (#3), 3% DMI (#4)

A Powerful Enhancer for Transdermal Delivery



A Powerful Enhancer for Transdermal and Hair Delivery



Natural Emollient

Skin care

Natural emollients are key components in skincare formulations, offering moisturizing and softening properties. These ingredients mimic the skin's natural oils, forming a protective barrier that locks in moisture and prevents dehydration. They provide lightweight hydration without greasiness, leaving the skin feeling smooth and silky. Some emollients enhance the spreadability of products and aid in the absorption of active ingredients. Altogether, these natural emollients nourish and replenish the skin.

Product Name	Certification		INCI	Form	Application															
	Halal Certification	China Compliant			Skin cream	Cleansing balm	Facial moisturizer	Eye cream	Sunscreen	Cleanser	Foundation	Lip gloss	Concealer	Anti-aging	Eye shadow	Lip stick	Blush	Body lotion	Makeup remover	Night skin care
CEH 100KC			Cetyl Ethylhexanoate	Liquid	●	●														
GEH 300KC	●	●	Triethylhexanoin						●		●	●								
HL 100KC			Hexyl Laurate				●		●				●	●						
ININ 100KC			Isononyl Isononanoate						●				●		●	●	●			
ICEH 100KC		●	Isocetyl Ethylhexanoate				●	●												
ICM 100KC			Isocetyl Myristate								●									
ODM 100KC	●	●	Octyldodecyl Myristate				●		●		●							●		
PETEH 400KC		●	Pentaerythrityl Tetraethylhexanoate					●								●			●	●
NPDC 200KC			Neopentyl Glycol Dicaprate				●	●					●			●				

Natural Based Moisturizer & Skin Conditioning Agent

These ingredients are sought-after for their ability to deeply hydrate the skin while simultaneously enhancing its texture and appearance. Acting as humectants, they attract moisture and bind it to the skin, providing long-lasting hydration and improving skin elasticity. Moreover, their natural origins and gentle nature make them suitable for a wide range of skin types, including sensitive skin. When included in formulations, skincare products can effectively nourish and rejuvenate the skin, also meeting the requirements safe and sustainable skincare solutions.

Product Name	Certification					INCI	Form	ISO 16128	Application							
	Halal Certification	RSPO	COSMOS Approved	Palm free	China Compliant			NOI	Shampoo	Hair Conditioner	Hair Styling	Shower gel	Skin cream/lotion	Facial cleanser	Sunscreen	Make-up
PGL 202KC						Diglycerin		1								
PGL 103KC	●			●	●	Polyglycerin-3		1								
PGL 110KC	●				●	Polyglycerin-10	Liquid	1	●	●	●	●	●	●	●	●
Methyl Gluceth E10KCH						Methyl Gluceth-10		-								
Methyl Gluceth E20KC					●	Methyl Gluceth-20		-								

Natural Based Moisturizer

Skin care

Natural moisturizers have exceptional hydrating properties, attracting and retaining moisture within the skin, helping to maintain optimal hydration levels, and promoting a smooth, supple complexion. By forming a protective barrier, Hydrojel helps to prevent moisture loss and strengthen the skin's natural moisture barrier. With its natural composition, Hydrojel provides effective moisturization without the use of harsh chemicals, making it suitable for a wide range of skin types.

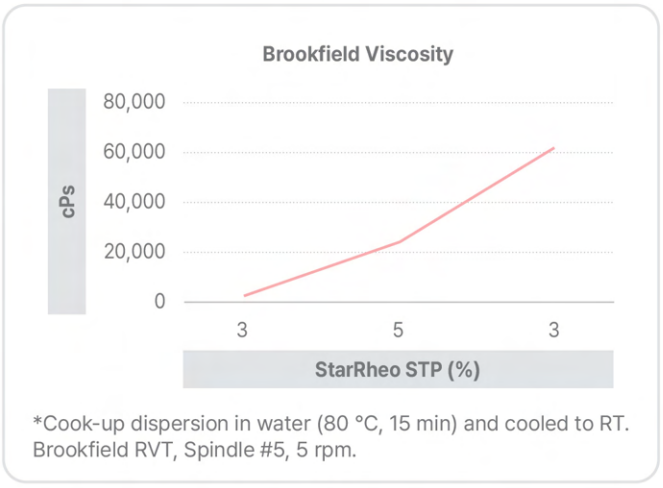
Product Name	Certification				INCI	Form	Application														
	Halal Certification	RSPO	COSMOS Approved	China Compliant			Shampoo	Hair Conditioner	Hair Styling	Shower Gel	Skin Cream	Cleanser	Foundation	Lip Gloss	Concealer	Anti-aging	Eye shadow	Lip stick	Blush	Body Lotion	Face and Neck Preparation	Night skin care
Hydrojel MPFKC-E				●	Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & 1,2-Hexanediol & Ethylhexylglycerin	Gel / Liquid	●	●	●	●	●	●	●	●						●	●	●
Hydrojel DPFKC-E				●	Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & 1,2-Hexanediol & Ethylhexylglycerin	Gel / Liquid	●	●	●	●	●	●	●	●						●	●	●
Hydrojel OILPFKC-E				●	Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & 1,2-Hexanediol & PVM/MA Copolymer & Water & Ethylhexylglycerin	Liquid	●	●	●	●	●	●	●	●						●	●	●
Hydrojel CGKC	●			●	Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & Propylene Glycol	Gel / Liquid	●	●	●	●	●	●	●	●						●	●	●
Hydrojel PFKC	●			●	Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & Water	Gel / Liquid	●	●	●	●	●	●	●	●						●	●	●
Hydrojel MPFKC	●			●	Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & 1,2-Hexanediol	Gel / Liquid	●	●	●	●	●	●	●	●						●	●	●
Hydrojel DVKC	●			●	Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & Propylene Glycol	Gel / Liquid	●	●	●	●	●	●	●	●						●	●	●
Hydrojel DPFKC	●			●	Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & 1,2-Hexanediol	Gel / Liquid	●	●	●	●	●	●	●	●						●	●	●
Hydrojel OILKC	●			●	Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & Propylene Glycol & PVM/MA Copolymer	Gel / Liquid	●	●	●	●	●	●	●	●						●	●	●
Hydrojel OILPFKC	●			●	Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & 1,2-Hexanediol & PVM/MA Copolymer & Water	Liquid	●	●	●	●	●	●	●	●						●	●	●
Phosjel PFKC					Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & Water	Gel / Liquid	●	●	●	●	●	●	●	●						●	●	●
Phosjel MPFKC					Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & 1,2-Hexanediol	Gel / Liquid	●	●	●	●	●	●	●	●						●	●	●
Phosjel DPFKC					Glycerine & Glyceryl Acrylate / Acrylic Acid Copolymer & 1,2-Hexanediol	Gel / Liquid	●	●	●	●	●	●	●	●						●	●	●

Starch-Based Natural Rheology & Sensory Modifiers

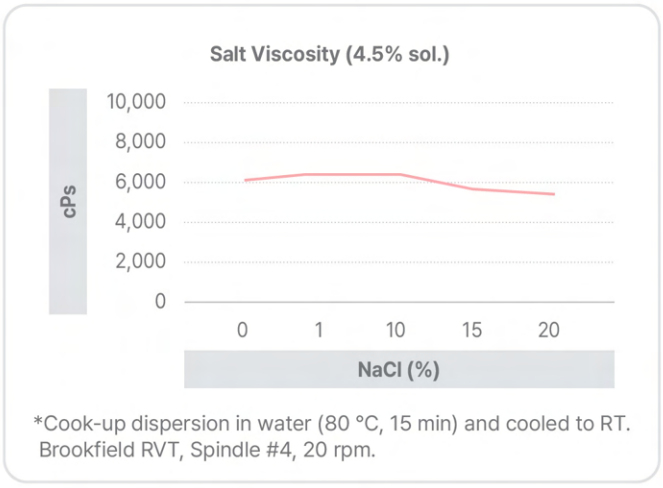
Skin care

Product	INCI name	Forms	Function	Source	Certification	Application
StarRheo STP	Hydroxypropyl starch phosphate	Powder	Rheology modifier	Waxy corn	Non-GMO	Skin care
StarFlo DSP	Distarch phosphate	Powder	Sensory modifier	Corn	Non-GMO	Skin care

Viscosity properties



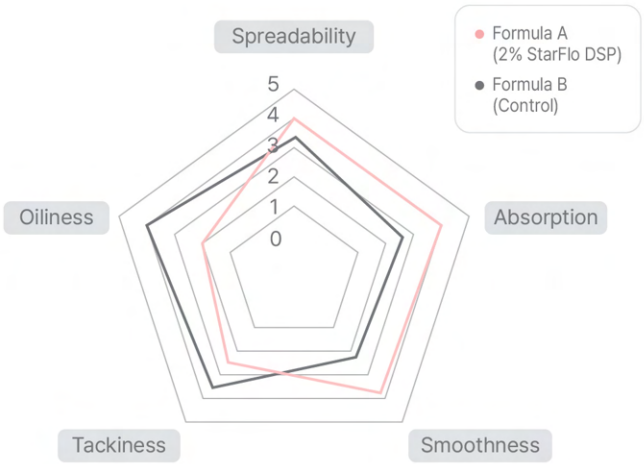
*Cook-up dispersion in water (80 °C, 15 min) and cooled to RT. Brookfield RVT, Spindle #5, 5 rpm.

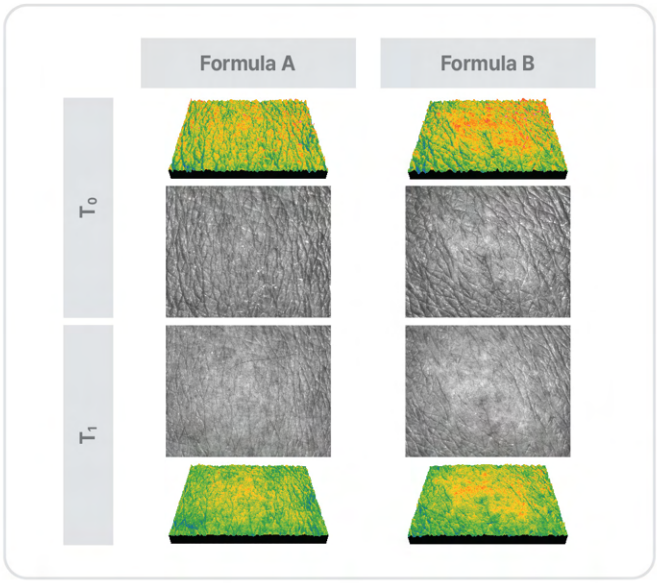


*Cook-up dispersion in water (80 °C, 15 min) and cooled to RT. Brookfield RVT, Spindle #4, 20 rpm.

- StarRheo STP shows a clear viscosity increase with concentration after cook-up processing.
- It enables robust viscosity development and creamy texture, making it suitable for hot-process system.

Sensory Profile





- StarFlo DSP improves the appearance and feel of skin smoothness, helping the skin surface feel softer, smoother, and less rough after application.

Hair Care



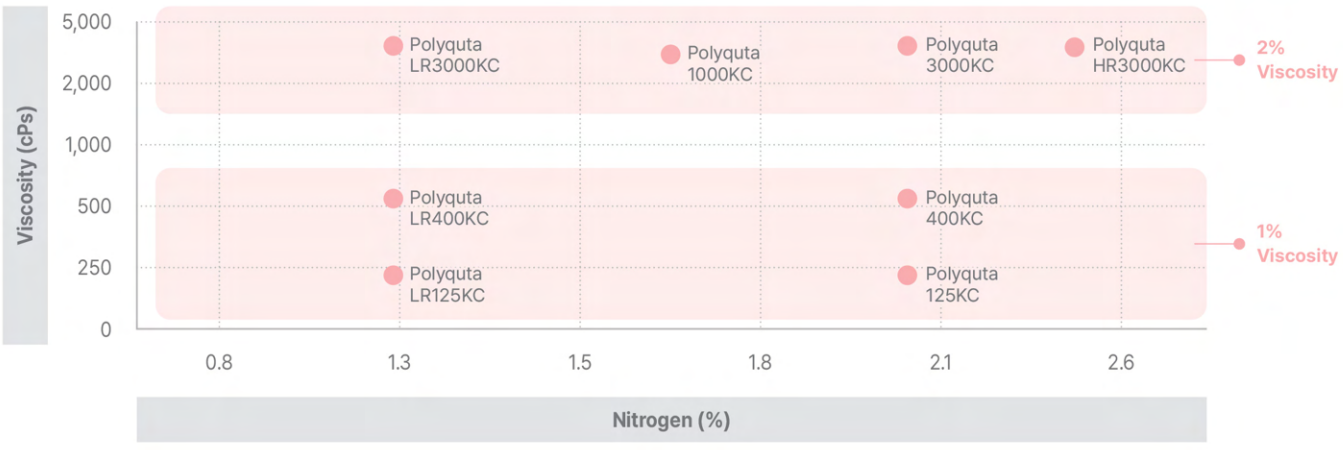
Conditioning Polymer

Hair care

Conditioning polymers are commonly used in personal care products like shampoos, conditioners, styling products, and shower gels. They play a vital role by providing conditioning, moisturizing, and antistatic effects as well as improving wet & dry combing. They help improve the overall appearance, feel, and manageability of the hair, making them crucial in a wide range of formulations.

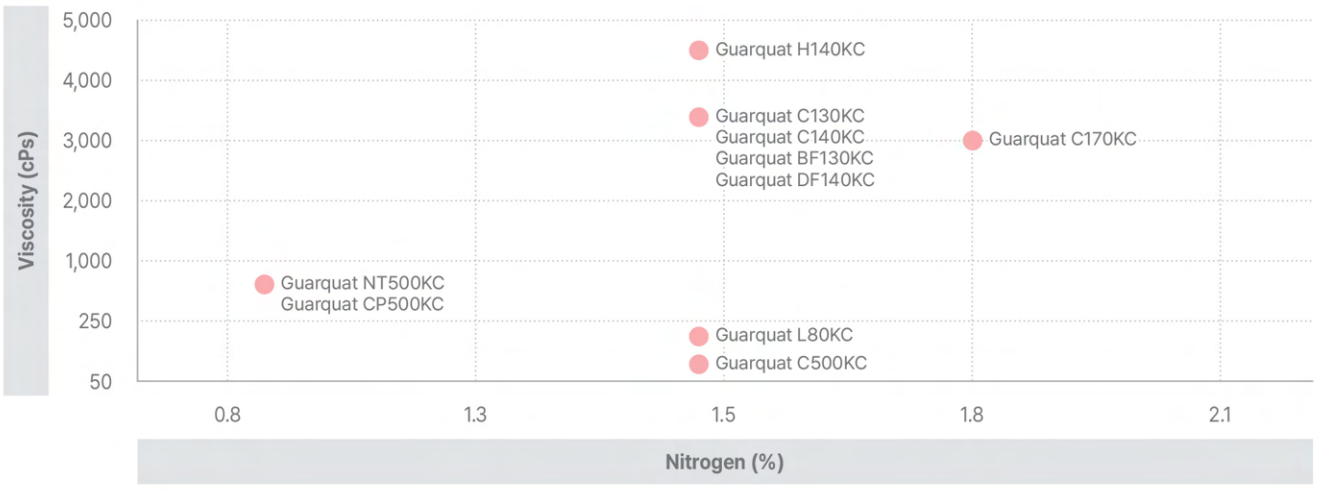
Polyquaternium

Product Name	Certification		INCI	Typical Properties			Application				
	Halal Certification	China Compliant		Form	Nitrogen (%)	Viscosity (cPs)	Shampoo	Hair Conditioner	Hair Styling	Shower gel	characteristics
Polyquta 125KC						75 - 175					
Polyquta 400KC					1.7 - 2.2	300 - 500					Deep conditioning shampoo with low viscosity
Polyquta 400KC (Non-GMO)						300 - 500					
Polyquta 1000KC					1.4 - 1.8	1,000 - 1,400					Deep conditioning shampoo with High viscosity
Polyquta 3000KC	●	●	Polyquaternium-10	Powder	1.7 - 2.2	1,000 - 2,500	●	●	●	●	
Polyquta LR400KC					0.8 - 1.2	300 - 500					Daily use shampoo with low viscosity
Polyquta LR3000KC						1,000 - 2,500					Daily use shampoo with high viscosity
Polyquta HR3000KC					2.6 - 2.9	1,000 - 2,500					Intensive repair conditioning
Neoquta 400KC				Granule	1.7 - 2.2	300 - 500					Daily shampoo with low viscosity
Neoquta 3000KC						1,000 - 2,500					High conditioning with viscosity
Polyquat L420KC		●	Polyquaternium-4	Powder	1.6 - 2.4	35 - 350		●	●		Styling, curl definition
Polyquat 640KC	●	●	Polyquaternium-6	Liquid	-	8,000 - 12,000	●	●	●	●	Intensive hair repair, colorants



Guar Polymer

Product Name	Certification			INCI	Typical Properties			Application				
	Halal Certification	COSMOS Approved	China Compliant		Form	Nitrogen (%)	Viscosity (cPs)	Shampoo	Hair Conditioner	Hair Styling	Shower gel	characteristics
Guarquat C140KC						1.3 - 1.7	3,000 - 4,000					
Guarquat H140KC						1.25 - 1.55	4,000 - 5,000					Dalily shampoo High conditioning
Guarquat DF140KC	●	●	●	Guar Hydroxypropyl trimonium Chloride		1.3 - 1.6						
Guarquat C130KC						1.3 - 1.7	3,000 - 4,000					
Guarquat BF130KC						1.3 - 1.7						Daily shampoo with self hydrating
Guarquat C170KC	●	●	●		Powder	1.5 – 2.1	2,000 - 4,000	●	●	●	●	Daily shampoo with high active deposition Antidandruff shampoo, Rinse off conditioners
Guarquat L80KC	●	●	●	Guar Hydroxypropyl trimonium Chloride		1.1 – 1.6	150 - 250					Daily shampoo with low viscosity
Guarquat C500KC		●	●	Guar Hydroxypropyl trimonium Chloride		1.45 – 1.75	25 - 65					
Guarquat CP500KC			●	Hydroxypropyl guar Hydroxypropyl trimonium Chloride		0.8 - 1.4	300 - 1,000					Daily shampoo Transparent shampoo Silicon free shampoo Transparent Body washes, styling gels
Guarquat NT500KC		●	●	Guar Hydroxypropyl trimonium Chloride		0.8 – 1.4	300 - 1,000					
Guarquat HP105KC			●	Hydroxypropyl guar		NA	2,500 - 4,500					Transparent Body washes, styling gels



Hair Conditioning Agent

Conditioning agents constitute a vital category of ingredients in hair and skincare products. Renowned for their conditioning properties, these products excel in enhancing hair texture, facilitating detangling, and boosting overall hair wellness. Beyond haircare, they also find utility in selected skincare formulations, contributing to emulsification and conditioning.

Product Name	Certification			INCI	Typical Properties		Application			
	Halal Certification	RSPO	China Compliant		Form	Active Substance (%)	Shampoo	Hair Conditioner	Hair Styling	characteristics
BTAC P7580KC				Behentrimonium Chloride & Isopropanol	Pellet	78 - 84				
BTAC D7570KC				Behentrimonium Chloride & Dipropylene glycol		68 - 70				
BTAC 220KC	●		●	Behentrimonium Chloride & Propylene glycol	White paste	25 - 27				Hair conditioning Deep repair masks Waxy, heavy texture
BTAC 228KC				Behentrimonium Chloride & Ethanol	Pellet	79 - 81				
BTAC PF4050		●	●	Behentrimonium chloride & Cetearyl alcohol		35 - 45				
BTMS P8580KC				Behentrimonium methosulfate & Isopropyl alcohol		78 - 82	●	●	●	
BTMS 7550KC	●	●	●	Behentrimonium methosulfate & Cetyl alcohol & Butylene glycol		48 - 51				
BTMS C7550KC				Behentrimonium methosulfate & Cetyl alcohol		48 - 51				Hair conditioning Creams, Milks, Silky texture
BTMS E7550KC		●	●	Behentrimonium methosulfate & Cetyl alcohol & Stearyl alcohol		48 - 51				
BTMS 225KC	●	●	●	Behentrimonium Methosulfate & Cetearyl Alcohol		23 - 26				
BTMS 225LKC						23 - 26				
STAC 80KC				Steatrimonium Chloride	Paste	64 - 66				
STAC 808KC					Pellet	79 - 82				Hair spray moderate texture Transparent formulation
STAC D70KC				Steartrimonium Chloride & Dipropylene Glycol	Pellet	68 - 72				
CTAC 25KC	●		●	Cetrimonium Chloride	Liquid	24 - 26				
CTAC 30KC						29 - 31				Hair spray Light texture Transparent formulation
CTAC 60KC						24 - 26				
LTAC 20KC				Laurtrimonium chloride		28 - 30	Fabric detergent & softener			
Multicare MA50KC				Polyquaternium-37 & Propylene Glycol Dicaprylate/Dicaprate & PPG-1 Trideceth-6	Liquid	48 - 52	●	●	●	Thickening and conditioning agent Smooth, rich texture

Rheology Modifier

Hair care

Rheology modifiers are essential for controlling how cosmetic products feel and behave. They ensure that products spread smoothly and evenly when applied and thickens formulations like creams and gels. Products such as PEG-18 glyceryl Oleate/ Cocoate and PEG-120 Methyl Glucose Dioleate prevent ingredients from separating and help maintain a consistent texture. By managing the flow properties of cosmetics, these modifiers enhance their performance, texture, and overall user experience, meeting the varied expectations of consumers across different product types like creams, lotions, and serums.

Product Name	Certification				INCI	Form	Application							
	Halal Certification	RSPO	COSMOS Approved	China Compliant			Shampoo	Hair Conditioner	Hair Styling	Shower gel	Skin cream/lotion	Facial cleanser	Sunscreen	Make-up
Acecare 30KC / F30KC	●			●	Acrylates Copolymer	Liquid	●	●	●	●	●	●	●	●
Glyco 171KC				●	PEG-18 Glyceryl Oleate / Cocoate		●	●	●	●	●	●		
Methyl Gluceth DOE 120KC	●	●		●	PEG-120 Methyl Glucose Dioleate	Flake	●	●	●	●	●	●		
Phosphomer® CEM510CNKC				●	Carbomer & Polyphosphorylcholine Glycol Acrylate	Powder	●	●	●	●	●	●	●	●
Phosphomer® ST610CNKC					Acrylates / C10-30 Alkyl Acrylate Crosspolymer & Polyphosphorylcholine Glycol Acrylate		●	●	●	●	●	●	●	●

Surfactant

Our versatile surfactant portfolio combines mild cleansing, rich foam performance, and superior conditioning benefits for a wide range of hair and skin care applications. From Aminoxide, Betaine, and Sultaine to high-performance AOS systems, we deliver optimized solutions designed for enhanced sensory experience, formulation flexibility, and everyday care performance.

Product Name	Properties	INCI	Typical Properties		Application					
			Form	Active Substance (%)	Shampoo	Hair Conditioner	Hair Styling	Shower gel	Skin cream /lotion	Facial cleanser
Amidox SO30KC	Amphoteric	Soyamidopropylamine Oxide	Liquid	28 - 30	●	●		●		●
KAMPHO BT30	Amphoteric	Cocamidopropyl betaine	Liquid	35 min	●	●		●		●
KAMPHO ST40	Amphoteric	Lauryl hydroxysultaine	Liquid	45 Max	●	●		●		●
KANION AOS35	Anionic	Sodium C14-C16 Olefin sulfonate	Liquid	34 - 36	●	●		●		●

Active Delivery System

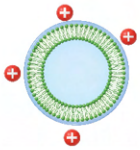
Hair care

- ✓ Advanced Liposome-based systems enhance hair delivery and stability.
- ✓ Encapsulated polymers provides targeted conditioning and long-lasting care
- ✓ Encapsuiated oils improve protection and hair performance

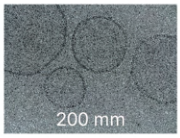
Encapguard™ CAT

Liposome structure

- ✓ Cationic liposome for enhanced hair adhesion
- ✓ BTMS-based ceramide stabilization
- ✓ Improved hair substantivity and scalp delivery efficiency

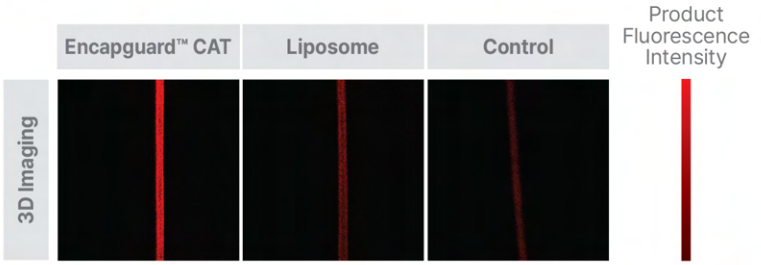


Schematic illustration



Cryo-TEM

Hair Coating Test (CLSM)



Hair adhesion rate **>243%** Liposome adhesion rate (Encapguard™ CAT)

Efficacy	Active/Content	Forms	Description	Flatform
Hair Strenghening & Scalp Barrier Care	Ceramide NP 1 - 10%	Liquid	Repair damaged hair and enhanced protective barrier function	Encapguard™ Cera
	Ceramid NP 50%	Powder		
	Ceramide NP/AP/EOP 1 - 10%	Liquid		
	Ceramide NP/AP/EOP 50%	Powder		
	Ceramide NG 1%	Liquid		
	Biotin 10%	Liquid	Supports scalp health and strengthens hair condition	Encapguard™ DMI
Scalp revitalization & Anti-Aging	Caffeine 5%/Niacinamide 5%	Liquid	Revitalizes the scalp and promotes a healthy growth environment	Encapguard™ CAT
	NMN 10%	Liquid	Supports cellular energy activation and anti-aging care	
Antioxidant Scalp Protection	Glutathione 5%	Liquid	Reduces oxidative stress on the scalp and improves damaged hair	
Scalp Barrier & Sebum Control	Niacinamide 10%	Liquid	Supports barrier function and helps control excess sebum	
Hair Conditioning & Anti-Static	BTMS 5%	Liquid	Provides cationic conditioning to reduce tangling and static	
	Catechin 0.1 - 2%	Liquid	Improves damaged hair conditioning and provides a smoother feel	Encapguard™ ON

Active Ingredient

Piroctol KC is a anti-dandruff & scalp care agent. It is very effective in treating dandruff and preventing hair loss. It has antifungal properties and limits the growth of Malassezia furfur fungus, which is the cause of dandruff. It is highly soluble in surfactant systems and contributes to the viscosity of the formulation. It is used mainly in anti-dandruff shampoo and also in other hair care formulations as well as anti-acne formulations.

Product Name	Certification				INCI	Typical Properties		Application							
	Halal Certification	RSPO	COSMOS Approved	China Compliant		Form	Active Substance (%)	Shampoo	Hair Conditioner	Hair Styling	Shower gel	Skin cream/lotion	Facial cleanser	Sunscreen	Make-up
Piroctol KC				●	Piroctone Olamine	Powder	99% Min.	●	●	●	●	●	●	●	●

PreserGreen

Antimicrobial Agent for Preservative-Free Formulations

PreserGreen is an eco-friendly antimicrobial agent designed for preservative-free personal care and cosmetic formulations. Derived entirely from natural fatty acids and validated with a Natural Origin Index of 1.0, it offers a sustainable alternative to conventional synthetic preservatives. Its mild, non-toxic formula has demonstrated very low irritation levels in skin patch tests, making it suitable for sensitive skin applications. Ideal for products such as shampoos, shower gels, and other rinse-off formulations.

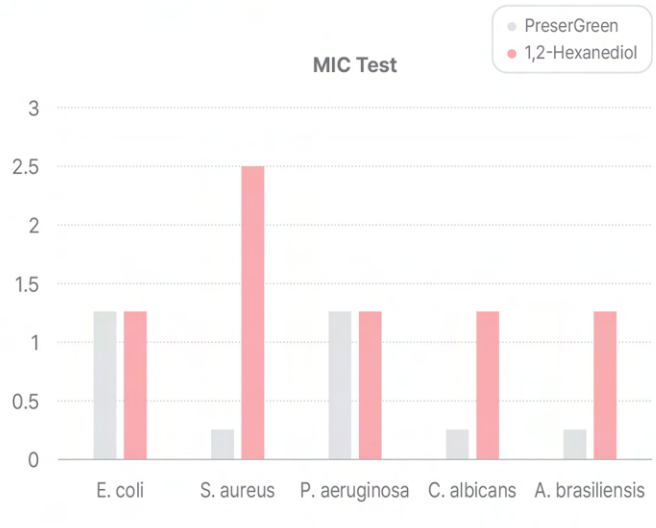
Description / General Characteristics

- ✓ Classification : Surfactant
- ✓ INCI Name : Water and Capric Acid and Potassium Carbonate and Lauric acid
- ✓ CAS No. : 7732-18-5 and 334-48-5 and 584-08-7 and 143-07-7
- ✓ EC/List No. : 231-791-2 and 206-376-4 and 209-529-3 and 205-582-1

Typical properties

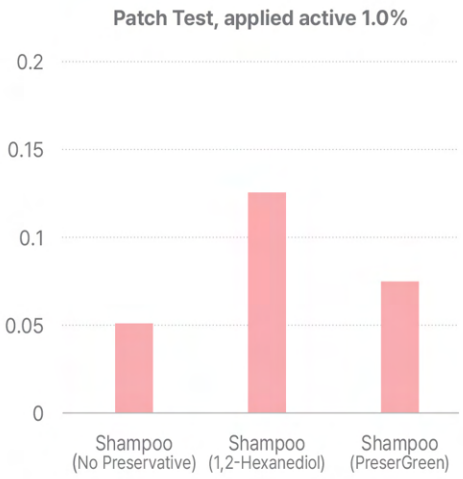
Subject	Specification
Appearance	Pale yellow liquid
pH (10% sol'n)	8.0 - 9.0
Specific Gravity	1.035 - 1.055
Color(APHA)	200 Max.

Antimicrobial effect



PreserGreen exhibits relatively lower MIC(Minimum Inhibitory Concentration) values in bacteria and eumycetes compared to 1,2-Hexanediol.

Skin irritation



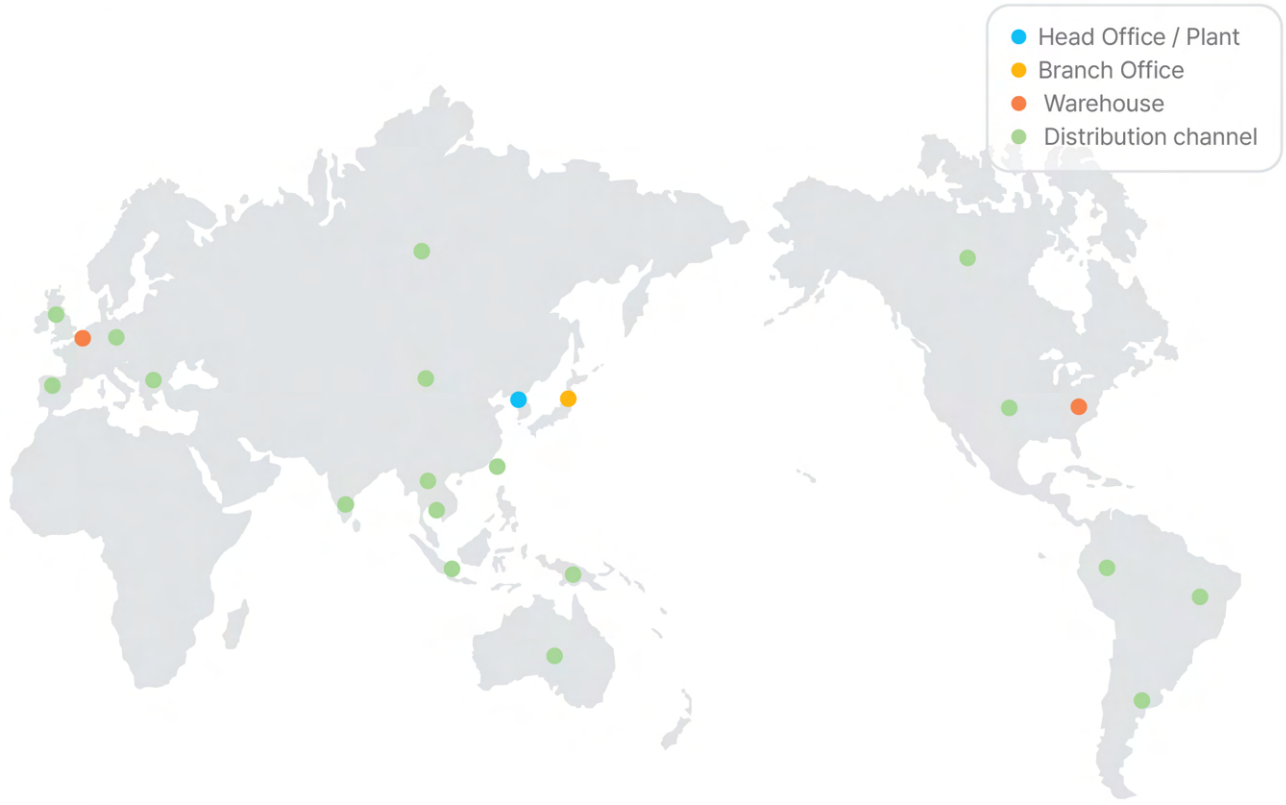
PreserGreen exhibits relatively low skin irritation in the formulations.

Resin for Nail Polish

Product Name	Certification				INCI	Typical Properties		Application
	Halal Certification	RSPO	COSMOS Approved	China Compliant		Form	Active Substance (%)	Nail polish
Polyester Resin 70KC	●			●	Adipic Acid/Neopentyl Glycol/Trimellitic Anhydride Copolymer and Butyl Acetate	Liquid	68 - 72	●

Company Overview

We have been supplying a wide range of cosmetic ingredients to more than 280 customers in 55 countries across the world, including most of prominent multinational companies.



Head Office / Plant

Samyang KCI (Headquarters)





- Seoul Office
- R&D Institute
- Tech Center

Daesan Plant

Shihwa Plant

Branch Office

Samyang KCI Japan



Warehouse

Rotterdam (Netherlands)



Chicago (USA)



2 Factories,
3 Warehouses

55
Countries

126
Products

>280
Customers

SAMYANG

KCI