Clean. Green. Sustainable

Ethically sourced ingredients

NATURA AEROPACK CORPORATION

A SUBSIDIARY OF
CHEMREZ TECHNOLOGIES

Coco Surfactant

100% coconut-derived surfactants that deliver excellent cleansing property with proven mildness for personal, home, and institutional products.

SULFATE-FREE CLEANSERS
PRIMARY SURFACTANTS

SLS & SLES ALTERNATIVE

100% NATURAL ISO 16128-1

1.0 RENEWABLE CARBON INDEX

SUFRAVON 820
Potassium Cocoate (and)
Potassium Palmitate
Home Care Formulations

SUFRAVON 874
C12 - C18 Coconut Fraction
Home Care Formulations

SUFRAVON 868
Potassium Cocoate
Personal/Home Care Formulations

SUFRAVON 869
Potassium Cocoate
Personal Care, Baby Care,
Pet Care Formulations

SUFRAVON 875
Potassium Laurate
Personal Care Formulations

SUFRAVON 890
Potassium Cocoate (and)
Potassium Olivate
Personal Care Formulations

SUFRAVON 840GV2
Potassium Cocoate (C12 - C18)
Home Care Formulations

SOLID

SUFRAVON SN100 (SOAP NOODLES)
Sodium Cocoate
Personal/Home Care Formulations

SUFRAVON SCI80
Sodium Cocoyl Isethionate
Personal/Home Care Formulations

FOAMIER SOLUTIONS
FOAM BOOSTER

SUFRAMIDE 307
Cocamide Methyl MEA (CMMEA)
80% Active
Nitrosamine-free, EO-free, DEA-free

SUFRAMIDE 400/400L
400 - Cocamide MIPA
400L - Cocamide MIPA (and)
Cocamidopropyl Betaine
Nitrosamine-free, EO-free,
DEA-free, MEA-free

SUFRAMIDE 301/300/305
Cocomonoethanolamide (CMEA)
85-95% Active
Nitrosamine-free, EO-free, DEA-free

SUFRAMIDE 640
Aqua (and) Cocamide MEA (and)
Glycerin (and) Sodium Benzoate
40–45% Active

SUFRAMIDE 182/190/191
Cocodiethanolamide (CDEA)
82-90% Active
EO-free

SUFRAMIDE HF850
Liquid Cocamide MEA
Nitrosamine-free, DEA-free
98% Active

SUFRAMIDE LD
Lauramide DEA
90% Active
EO-free

SUFRAMIDE LM
Lauramide MEA
90% Active
EO-free, DEA-free

MILD WASHES
WIDE PH RANGE SURFACTANTS

SUFRASOFT CB30
Cocamidopropyl Betaine
30% Active

SUFRASOFT CB45
Cocamidopropyl Betaine
40% Active

SUFRASOFT CB30LS
Cocamidopropyl Betaine
30% Active (Low Salt)

SUFRASOFT CB140
Cocamidopropyl Betaine
Glycerin-free
30% Active

SUFRASOFT LB30
Lauramidopropyl Betaine
30% Active

SUFRASOFT HS100
Cocamidopropyl Hydroxysultaine
41-43% Active

SUFRASOFT HS300
Cocamidopropyl Hydroxysultaine
Glycerin-free
42-45% Active

SUFRASOFT HS200
Lauramidopropyl Hydroxysultaine
42-45% Active

SUFRASOFT HS600 (43% Active)
SUFRASOFT HS700 (30% Active)
Lauryl Hydroxysultaine

SUFRASOFT AO100
Cocamidopropylamine Oxide
29-33% Active

SUFRASOFT AO200
Lauramine Oxide
30-33% Active

SUFRASOFT AO250
Cocamine Oxide
30-33% Active

Coco Functional Ingredients

Expertly customized functional ingredients that enhance product quality and appearance to achieve aesthetically pleasing sensory qualities and remarkable results.

SPECIAL FEATURES

- Cold-processable*
- Compatible with a wide range of surfactants
- Allergen-free and non-GMO
- Enhances the luxurious feel of formulations

GLYSOFT RG*
Refined Glycerin
100% Coconut-derived glycerin

GLYSOFT SF*
Cocoglycerides
Superfatting and superior thickening agent

NEOSOFT SD/CD*
Stearamidopropyldimethylamine Lactate / Cocamidopropyldimethylamine Lactate
Cationic surfactant as a conditioning agent in hair care products

NEOSOFT CQ90
Quaternary ammonium compounds, Coco alkylethylbis(hydroxyethyl), Et Sulfates (salts) (and) Cocoglycerides (and) Butylene Glycol
Conditioning Active

EMULSIER GMS 100/200
Glyceryl Stearate
Low HLB emulsifier

EMULSIER GML
Glyceryl Laurate
Coconut-derived emulsifier

EMULSIER PGE
Polyglycerol Esters
Coconut-derived solubilizer

NATURA COCONUT OIL
***Cocos nucifera* oil**
Emollient
For cosmetics and soap making

PEARLUX PB*
Cold-processable
Pearlizing blend

PEARLUX OB*
Cold-processable
Opacifying blend

PEARLUX EGDS
Glycol Distearate
Superior pearlizing agent compatible with a wide range of surfactants

PEARLUX EGMS
Glycol Stearate
Opacifying angent compatible with a wide range of surfactants

COCONUT DERIVED · CRUELTY FREE · SUSTAINABLE · حلال HALAL · NMPA REGISTERED

Talk to our experts:
info@natura-aeropack.com
www.natura-aeropack.com

Learn more about our sustainable ingredients

Natura Aeropack Corporation

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info@natura-aeropack.com www.natura-aeropack.com Natura Aeropack Corporation

Coco Emollients

PETROLEUM-FREE MOISTURIZER

Naturally-derived skin protecting and caring products.
Smoothens and moisturizes the skin resulting in lower transepidermal water loss.

Approved by ECOCERT RAW MATERIAL
COSMOS APPROVED

100% NATURAL ISO 16128-1

1.0 RENEWABLE CARBON INDEX

Cocolatum

PETROLATUM ALTERNATIVE

SKIN PROTECTANT

PRODUCT	INCI NAME	FUNCTION	APPLICATION
COCOLATUM 501	Cocoglycerides (and) *Cera alba* (Beeswax) (and) *Euphorbia cerifera* (Candelilla) Wax	Improves moisture barrier	Moisturizer, Ointment, Lubricant, Hand Balm, Body Butter
COCOLATUM 503	Cocoglycerides (and) *Oryza sativa* (Rice) Bran Wax (and) *Euphorbia cerifera* (Candelilla) Wax	100% plant-derived for intense moisturization	Moisturizer, Ointment, Lubricant

Glyzer CT

SILICONE AND MINERAL OIL ALTERNATIVE

COCONUT TRIGLYCERIDE EMOLLIENTS

PRODUCT	INCI NAME	FUNCTION	APPLICATION
GLYZER CT100	Caprylic/Capric Triglyceride	Carrier oil	Baby Oil, Face Oil, Beauty Elixir
GLYZER CT200	Caprylic/Capric/Lauric Triglyceride	High lauric mositurizer	Cosmetics, Face Moisturizer
GLYZER CT300	*Cocos nucifera* (Coconut) Oil	Aromatic coconut oil	Hair Oil, Body Oil, Massage Oil, Fragrance Oil
GLYZER CT500	Cocoglycerides	Solubilizer and dispersing agent	Creams, Sun Care, Decorative Cosmetics
GLYZER CT600	Tricaprylin	Light Oil Feel	Light body Oil, Massage Oil

Glyzer CB100

SHEA BUTTER ALTERNATIVE

SKIN-SOFTENING BUTTER

PRODUCT	INCI NAME	FUNCTION	APPLICATION
GLYZER CB100	*Cocos nucifera* (Coconut) Seed Butter	Skin moisturizer	Body Butter, Body Wash, Hair Conditioner, Lip Balm

Glyzer CE

VOLATILE SILICONE ALTERNATIVE

FAST-ABSORBING EMOLLIENT

PRODUCT	INCI NAME	FUNCTION	APPLICATION
GLYZER CE100	Coco Caprylate	Dry-touch emollient	Face Cream, Gel Cream, Make up Removers, Decorative Cosmetics
GLYZER CE200	Isoamyl Laurate	Lightweight emollient	Face Serum, Cosmetics, Hair Serum, Sunscreen, Lip Care Products, Baby Oil
GLYZER CE300	Coco Caprylate / Caprate	Silky-feel emollient	Intimate Care Products, Lip Mask, Face Cream, Face Primer
GLYZER CE500	Butylene glycol dicaprylate / dicaprate	Fast-spreading light emollient	Skin Care, Sun Care, Decorative Cosmetics

Scan to view Emollients Matrix

Coco Actives

PLANT-BASED ACTIVE INGREDIENTS

Earth-conscious ingredients that are proven to be effective in solving challenges in skin care, hair care, and home care.

PRODUCT	INCI NAME	APPLICATION
SUFRAQUAT FS20I	Dialkylester Hydroxyethylammonium Methosulfate (and) Isopropyl Alcohol	Fabric Softener (High active for medium-viscosity formulations)
SUFRAQUAT FS25I	Dialkylester Hydroxyethylammonium Methosulfate (and) Isopropyl Alcohol	Fabric Softener (High active for very low-viscosity formulations)
SUFRAQUAT FS50I	Dialkylester Hydroxyethylammonium Methosulfate (and) Isopropyl Alcohol	Fabric Softener (Easily processable, non-viscosity building)
SUFRAQUAT FS100I	Dialkylester Hydroxyethylammonium Methosulfate (and) Isopropyl Alcohol	Fabric Softener (Easily processable, medium-viscosity building)
SUFRAQUAT FS300I	Dialkylester Hydroxyethylammonium Methosulfate (and) Isopropyl Alcohol	Fabric Softener (Offers cost-effective formulations at low usage levels)
SUFRAQUAT FS400P	Dialkylester Hydroxyethylammonium Methosulfate (and) Propylene Glycol	Fabric Softener (Clear in ultrahigh concentration formulation, low-viscosity building)
SUFRAQUAT FS500	Dialkylester Hydroxyethylammonium Methosulfate	Fabric Softener (Institutional and Industrial formulations, low-viscosity building)
NATPRO 8000	Glyceryl Caprylate (and) Glyceryl Caprate (and) Glyceryl Laurate	Natural Preservative (Broad-Spectrum)
NATPRO 7000	Glyceryl Undecylenate	Preservative Booster and Superfatting Agent
NATPRO AO100	Glyceryl Caprylate (and) Glyceryl Caprate (and) Glyceryl Laurate (and) Ferulic Acid	Natural Antioxidant

Coco Specialty Bases

Sufrapure

RINSE OFF | SULFATE-FREE SYSTEM

Naturally-derived surfactant system with good cleaning and foaming ability. It has excellent rinsing ability, reducing build-up that causes growth of harmful microorganisms. Mild, safe to use, and environmentally-friendly.

PRODUCT	INCI NAME	FUNCTION
SUFRAPURE SB10	Potassium Cocoate (and) Cocamide MEA (and) Cocamidopropyl Betaine (and) Glycerin (and) Cocoglycerides	Mild Soap Base
SUFRAPURE SB20	Potassium Cocoate (and) Lauryl Glucoside (and) Glycerin (and) Cocoglycerides	Tear-free Soap Base
SUFRAPURE SB30	Potassium Cocoate (and) Sodium Lauroyl Sarcosinate (and) Cocamide MEA (and) Cocamidopropyl Betaine (and) Cocoglycerides (and) Stearamidopropyl Dimethylamine Lactate	Clear Soap Base for Personal Care
SUFRAPURE SB30P	Potassium Cocoate (and) Sodium Lauroyl Sarcosinate (and) Cocamide MEA (and) Cocamidopropyl Betaine (and) Cocoglycerides (and) Stearamidopropyl Dimethylamine Lactate (and) Glycol Distearate	Pearlized Soap Base for Personal Care
SUFRAPURE SB40	Potassium Cocoate (and) Cocamide MEA (and) Sodium Citrate	Soap Base for Home Care
SUFRAPURE SB50	Potassium Cocoate (and) Sodium Lauroyl Sarcosinate (and) Cocamide MEA (and) Stearamidopropyl Dimethylamine Lactate (and) Cocoglycerides	High Foaming Soap Base
SUFRAPURE LP10	Cocamidopropyl Betaine (and) Glycerine (and) Cocoglycerides (and) Stearamidopropyl Dimethylamine Lactate (and) Cocamide MEA (and) EDTA (and) Panthenol	Low pH Surfactant Base
SUFRAPURE WP20*	Cocamide MEA (and) Lauramine Oxide	Wide pH Surfactant Base
SUFRAPURE CMB100/200	Cocamide MEA (and) Cocamidopropyl Betaine (and) Glycerin	Concentrated Foam-boosting Surfactant
SUFRAPURE PCB10	Potassium Cocoate (and) Cocamidopropyl Betaine	Neutral pH Soap Base

LEAVE ON | COLD PROCESSABLE EMULSION BLEND

Easy to use emulsion concentrates for creams and lotions. Provides extra moisture to smoothen the skin.

PRODUCT	INCI NAME	FUNCTION
SUFRAPURE LE*	Caprylic/Capric Triglyceride (and) Glyceryl Stearate (and) PEG-100 Stearate	Light Cream Base
SUFRAPURE HE*	*Cocos nucifera* (Coconut) Seed Butter (and) Glyceryl Stearate (and) PEG-100 Stearate	Heavy Cream Base

PROCEDURE

1

Recommended dosage: 30-40%
*SUFRAPURE WP20, LE, HE
Recommended dosage: 10-25%

2

Add water

3

Add
Preservatives: 0.1-1.0%
Fragrance: 0.1-1.0%
Thickener: 0.5-5.0%

Cocolatum

Moisturizing Skin Protectant

PETROLATUM ALTERNATIVE

Approved by ECOCERT RAW MATERIAL

COSMOS APPROVED

- Extra moisturizing
- Does not build up on skin
- With natural antibacterial property

100% NATURAL ISO 16128-1

1.0 RENEWABLE CARBON INDEX

NATURA AEROPACK CORPORATION

A SUBSIDIARY OF CHEMREZ TECHNOLOGIES

Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.

Cocolatum

Moisturizing Skin Protectant

Cocolatum 501

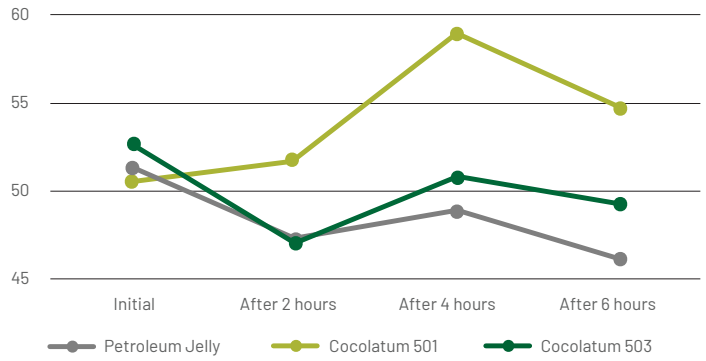
Cocoglycerides (and) *Cera alba* (Beeswax) (and) *Euphorbia cerifera* (Candelilla) Wax

Cocolatum 503

Cocoglycerides (and) *Euphorbia Cerifera* (Candelilla) Wax (and) *Oryza Sativa* (Rice) Bran Wax

VEGAN

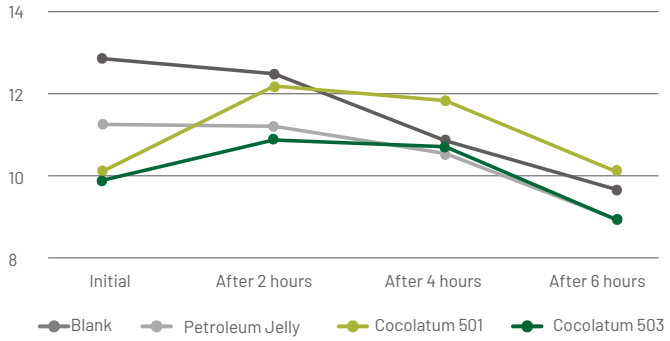
CORNEOMETER | SKIN MOISTURIZATION



As the corneometer reading increases, the level of skin moisture also increases. The depicted graph illustrates the exceptional moisturizing efficacy of Cocolatum 501.

PERCENT TEWL REDUCTION

TRANSEPIDERMAL WATER LOSS

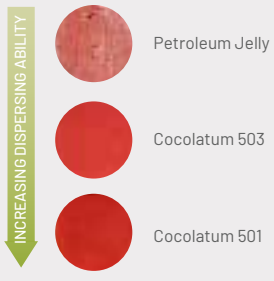


The TEWL reduction of **Cocolatum 501** is notably lower than Petrolatum on 6 hour use. (n=15).

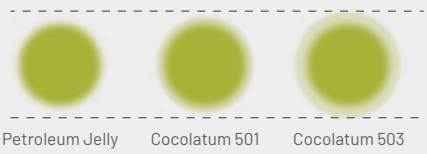
WASHING OFF ABILITY

The panel was immersed in a surfactant solution for 24 hours. The **Cocolatum 503** sample washed off the panel most easily.

COLOR DISPERSION



SPREADABILITY



The samples were applied to the filter paper and left to spread for 5 minutes. **Cocolatum 501** and **503** have good spreading ability against petroleum jelly.

SAMPLE FORMULATION

EGG LIP BALM

MATERIALS	INCI NAME	%
Cocolatum 503	Cocoglycerides (and) *Euphorbia cerifera* (Candelilla) Wax (and) *Oryza sativa* (Rice) Bran Wax	89.40
Candelilla Wax	*Euphorbia cerifera* (Candelilla) Wax	6.00
Cetyl Alcohol	Cetyl Alcohol	2.00
Glyzer CT200	Caprylic/Capric/Lauric Triglyceride	1.00
Strawberry flavor	Flavor	0.50
Cream flavor	Flavor	0.50
Vitamin E Acetate	Tocopheryl Acetate	0.50
Red 6 Lake	CI 15850	0.10
		TOTAL: 100

PROCEDURE

1. Load **Cocolatum 503,** Candelilla Wax, Cetyl Alcohol and **Glyzer CT200** into a single vessel and heat.
2. Continuously stir during melting until temperature reaches 65°C to 70°C and until appearance becomes homogeneous.
3. Cool down to 40°C.
4. Add in the flavors and colorants and continuously stir until homogeneous and no lumps of pigment remain.

PHYSICAL APPEARANCE

Appearance	Soft solid balm
Color	Pink

HALAL

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Glyzer CT

Coconut Triglyceride Emollients

SILICONE AND MINERAL OIL ALTERNATIVE

Approved by ECOCERT RAW MATERIAL
COSMOS APPROVED

COCO MCT®

- Light and non-tacky
- Mild and moisturizing
- Excellent solubilizer and dispersing agent

100% NATURAL ISO 16128-1

1.0 RENEWABLE CARBON INDEX

NATURA AEROPACK CORPORATION
A SUBSIDIARY OF CHEMREZ TECHNOLOGIES

Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.

Glyzer CT

Coconut Triglyceride Emollients

Sustainable coconut-derived light emollients, eco-friendly, and safer alternative to cyclic siloxanes. Ideal for leave-on personal care products like creams and lotions, replacing petroleum-derived mineral oil.

Dermatologically tested as mild and gentle

Derived from natural and sustainable raw materials

Has natural antibacterial property due to Lauric acid

PHYSICO-CHEMICAL PROPERTIES

BRAND NAME	INCI NAME	DESCRIPTION
Glyzer CT100	Caprylic/Capric Triglyceride	Carrier Oil
Glyzer CT200	Caprylic/Capric/ Lauric Triglyceride	High lauric moisturizer
Glyzer CT500	Cocoglycerides	Solubilizer and dispersing agent
Glyzer CT600	Tricaprylin	Lightweight feel emollient

APPLICATION PROPERTIES

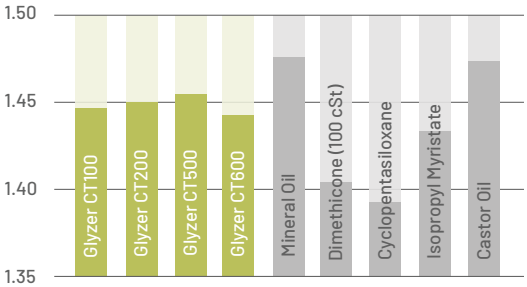
SMOOTHENING AND REPAIRING PROPERTY

BEFORE APPLICATION

AFTER APPLICATION

The damaged hair strand has open hair cuticles resulting in rough texture. Upon application of **Glyzer CT100**, the strands became smooth keeping hair cuticles intact.

REFRACTIVE INDEX



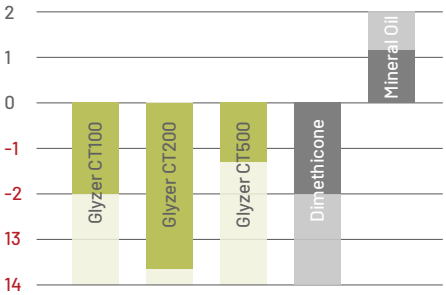
The refractive index of an emollient can be related to the gloss or shine of the ingredient on the skin or in a formulation; higher refractive indices result in more gloss or shine.

SUNCREEN SOLUBILITY

Emollients	6% Benzophenone-3 Insoluble	6% Benzophenone-3 Soluble	5% Avobenzone Insoluble	5% Avobenzone Soluble
Mineral Oil	○		○	
Isopropyl Myristate		✓		✓
Glyzer CT600		✓		✓
Glyzer CT500		✓		✓
Glyzer CT200		✓		✓
Glyzer CT100		✓		✓
Dimethicone 100 cSt	○		○	
Cyclopentasiloxane	○		○	
Castor Oil		✓		✓

PERCENT TEWL DIFFERENCE

BASELINE VS. 6 HOURS DATA

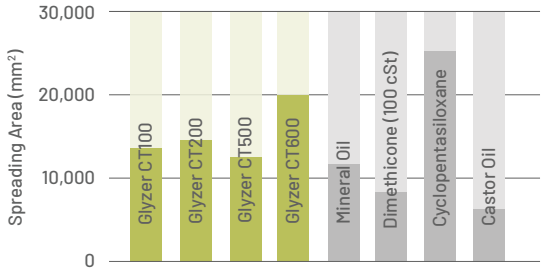


A negative change in TEWL value means a decrease in the amount of water loss by the skin, indicative of better moisture retention by use of **Glyzer CT.**

Glyzer CT range has better moisturizing property than Dimethicone and Cocoglycerides.

Glyzer CT200 has the most decrease in TEWL, hence, the best moisturizing emollient.

IN-VITRO SPREADABILITY



Glyzer CT100, CT200, CT500, and **CT600**, can provide medium spreading characteristic to products.

PIGMENT WETTABILITY

PIGMENT DISPERSION AFTER 24 HOURS

Method: Pigment blend (20% red iron oxide) was added to the emollient sample and dispersed for 1 hour at 1000 rpm.

Result: Based on the visual evaluation of the samples, our Glyzer CT500 has a very good performance as pigment carrier, followed by Glyzer CT200 and Glyzer CT100.

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HALAL

Glyzer CB100

Coconut Butter

SHEA BUTTER ALTERNATIVE

Approved by ECOCERT RAW MATERIAL

COSMOS APPROVED

- Mild and moisturizing
- Melts on the skin
- Light colored and odorless

100% NATURAL ISO 16128-1

1.0 RENEWABLE CARBON INDEX

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Glyzer CB100

COCOS NUCIFERA (COCONUT) SEED BUTTER

Natural coconut butter for intensive moisturization. Can be used for skin care and hair care products like body butter, body wash, hair conditioner, lip balm, etc.

MOISTURIZING
Lowers transepidermal water loss of the skin

NATURAL
Coconut-derived emollient

LIGHT COLOR
Does not affect the color of the end product

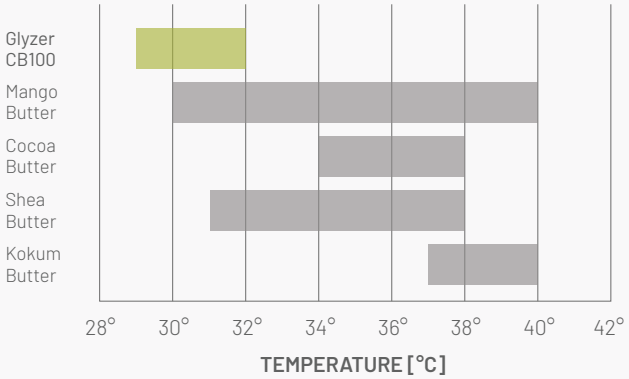
FRAGRANCE FREE
No coconut smell

NON-TACKY
Stays on top of the skin and non-greasy

MELTS ON SKIN
Low melting point, closer to body temperature

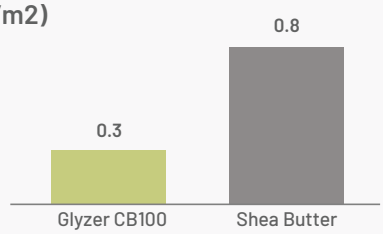
PHYSICO-CHEMICAL PROPERTIES

MELTING POINT RANGE



Glyzer CB100 has lower melting point than the rest of the samples. Given its lower melting temperature means it can be easily spread on skin and will impart less greasy feel.

PERCENT TEWL MEASUREMENT (g/h/m2)



The lower the TEWL value, the better the skin's ability to hold moisture.

Lotion with **Glyzer CB100** has lower TEWL than the lotion with Shea Butter. This means that **Glyzer CB100** can improve skin's ability to retain moisture.

SAMPLE FORMULATION

MOISTURIZING BAR CONDITIONER

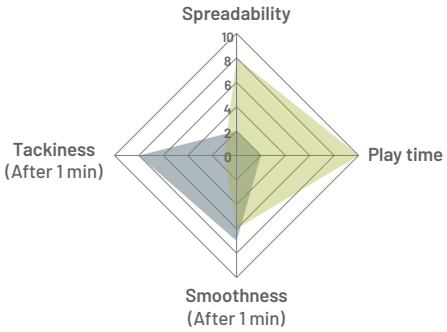
	INGREDIENTS	INCI NAME	FUNCTION	%
Phase A	**Glyzer CB100**	*Cocos nucifera* (Coconut) Seed Butter	Emollient	42.30
Phase A	Cetyl Alcohol	Cetyl Alcohol	Emulsifier	40.00
Phase A	Behentrimonium Chloride	Behentrimonium Chloride	Antistatic agent	5.00
Phase A	**Glyzer CT100**	Caprylic/Capric Triglyceride	Emollient	5.00
Phase A	Dicaprylyl Ether	Dicaprylyl Ether	Emollient	5.00
Phase B	Sunflower Oil	*Helianthius annuus* (Sunflower) Seed Oil	Active ingredient	1.00
Phase B	Fragrance	Parfum	Parfum	1.20
Phase B	Vitamin E	Tocopherol	Antioxidant	0.50
				100.00

PROCEDURE

- In a clean container, load **Glyzer CB100**, Cetyl Alcohol, Behentrimonium Chloride, **Glyzer CT100** and Dicaprylyl Ether. Heat to 80°C-85°C. Mix until fully melted. Mix to cool down to 50°C - 55°C temperature.
- Add Sunflower Oil. Mix until homogenous while maintaining the 50°C - 55°C temperature.
- Add fragrance. Mix until homogenous.
- Add Vitamin E. Mix until homogenous. Transfer to the desired packaging.

SENSORY EVALUATION

GLYZER CB100 VS. SHEA BUTTER



- Body Lotion (with Shea Butter)
- Body Lotion (with Glyzer CB100)

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HALAL

Glyzer CE

Fast-spreading Emollient

SILICONE AND MINERAL OIL ALTERNATIVE

Approved by ECOCERT RAW MATERIAL

COSMOS APPROVED

- Excellent Pigment Dispersant
- Outstanding UV Filter Solubilizer
- Natural & Sustainable

100% NATURAL ISO 16128-1

1.0 RENEWABLE CARBON INDEX

NATURA AEROPACK CORPORATION

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Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.

Glyzer CE

Fast-absorbing Emollient

Glyzer CE is a portfolio of clear, low-viscous emollients that provide a light & non-sticky skin feel. A 100% natural emollient acts as a caring emollient with high spreadability and quick absorption on the skin. It is non-toxic, non-irritating, fully biodegradable, and environmentally friendly.

Fast-spreading and high-performing

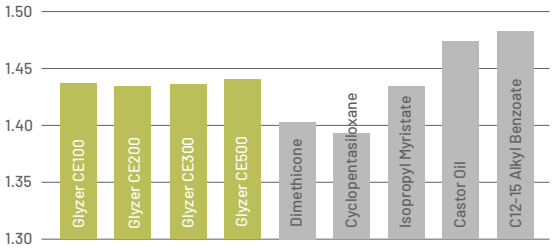
Derived from natural and sustainable raw materials

Readily biodegradable

PHYSICO-CHEMICAL PROPERTIES

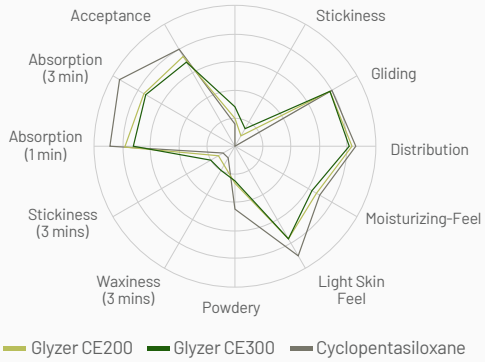
BRAND NAME	INCI NAME	DESCRIPTION	BODY CARE	FACE CARE	SUN CARE	HAIR CARE	COLOR COSMETICS	LIP CARE
Glyzer CE100	Coco Caprylate	Dry-touch emollient	✓	✓	✓	✓	✓	✓
Glyzer CE200	Isoamyl Laurate	Lightweight emollient	✓	✓	✓	✓		✓
Glyzer CE300	Coco Caprylate / Caprate	Silky-feel emollient	✓		✓	✓	✓	✓
Glyzer CE500	Butylene Glycol Dicaprylate / Dicaprate	Fast-spreading light emollient	✓	✓		✓	✓	✓

REFRACTIVE INDEX



Refractive index is the value given to emollients for their potential to add a gloss or shine on the finished product. Our Glyzer CE lines can give a healthy shine on applied surface.

SENSORY PROFILE



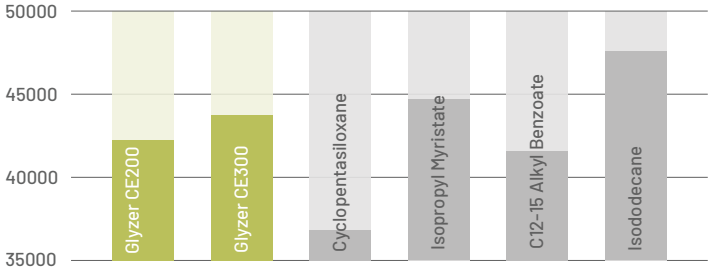
We evaluated the sensory profile of **Glyzer CE** in comparison to cyclopentasiloxane (D5). **Glyzer CE200** and **CE300** deliver a luxurious feel with a light touch of waxiness, extended playtime, and a lasting effect on the skin. They offer a silicone-like glide with low stickiness and leave a non-greasy, and a non-tacky finish.

SUNCREEN SOLUBILITY

Emollients	5% Avobenzone Insoluble	5% Avobenzone Soluble
Glyzer CE100		✓
Glyzer CE200		✓
Glyzer CE300		✓
Glyzer CE500		✓
Isopropyl Myristate		✓
C12-15 Alkyl Benzoate		✓
Isododecane	○	
Castor Oil	○	
Mineral Oil	○	
Dimethicone	○	
Cyclopentasiloxane	○	

Glyzer CE100, **CE200**, **CE300**, and **CE500** is an excellent emollient for solubilizing organic UV filters, effectively enhancing stability, and ensuring efficacy in formulations. Extensive testing showed no signs of recrystallization, making it an ideal choice for maintaining the quality and performance of sunscreen products.

IN VITRO SPREADABILITY



Glyzer **CE200** and **CE300** are vegetable oil-free emollients that can provide a similar silicone profile that is light, highly spreadable, and non-greasy or non-oily sensory feel.

PIGMENT WETTABILITY

Cyclopentasiloxane | Isododecane | Glyzer CE300

Emollients play a crucial role in color development; selecting the right emollients enhances color yield, reduces dosage per target shade, and improves color stability and compatibility. Compared to silicone, **Glyzer CE300** and **CE500** offer superior pigment dispersibility and wettability.

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HALAL

Sufravon

Plant-based Cleansing Surfactant

SLS & SLES ALTERNATIVE

Approved by ECOCERT RAW MATERIAL

COSMOS APPROVED

- Sulfate-free
- Moisturizing
- Non-irritating

100% NATURAL ISO 16128-1

1.0 RENEWABLE CARBON INDEX

NATURA AEROPACK CORPORATION

A SUBSIDIARY OF CHEMREZ TECHNOLOGIES

Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.

Sufravon

Plant-based Cleansing Surfactant

* Approved by ECOCERT RAW MATERIAL — COSMOS APPROVED

PRIMARY SURFACTANT | ANIONIC SURFACTANT

Sufravon functions as a primary or secondary surfactant - making it an excellent component in personal and home care formulations.

APPLICATIONS

- Baby Soap
- Shampoo
- Liquid Body Soap
- Hand Soap
- Homecare Formulation

Exceptional foaming & cleansing properties

Compatible with a wide range of surfactants

Easy to rinse, less water usage

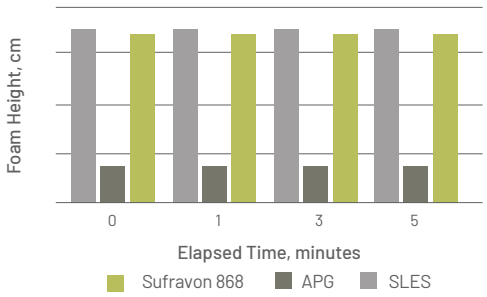
Excellent stain removing property

SUFRAVON VARIANTS

PRODUCTS	SUFRAVON 820	SUFRAVON 840GV2*	SUFRAVON 874*
INCI Name	Potassium Cocoate (and) Palmitate	Potassium Cocoate	Potassium Soap
Main Composition	Coconut Oil (and) Palm Oil	Fractionated Coconut Oil	C12 - C18 Coconut Fraction
pH	9 - 11	10 – 11	9 - 11
Applications	Home Care	Home Care	Home Care

PRODUCTS	SUFRAVON 868*	SUFRAVON 890*	SUFRAVON 875
INCI Name	Potassium Cocoate	Potassium Cocoate (and) Olivate	Potassium Laurate (High Lauric Acid)
Main Composition	Coconut Oil	Coconut Oil (and) Olive Oil	Coconut Oil
pH	9.5 – 10.5	9 - 11	9.5 – 10.5
Applications	Home Care, Personal Care	Personal Care, Baby Care, Pet Care	Personal Care

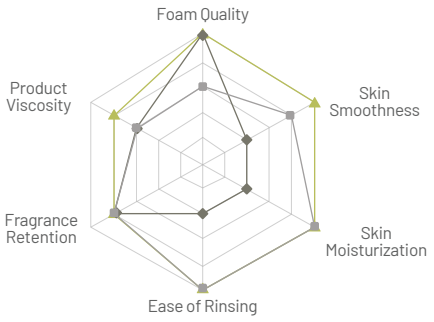
FOAM HEIGHT OF SUFRAVON 868 VS. SLES AT 1% SOLUTION



(Surfactant Actives: 10.5% Test Sample | 3% CAPB | 2% CDEA)

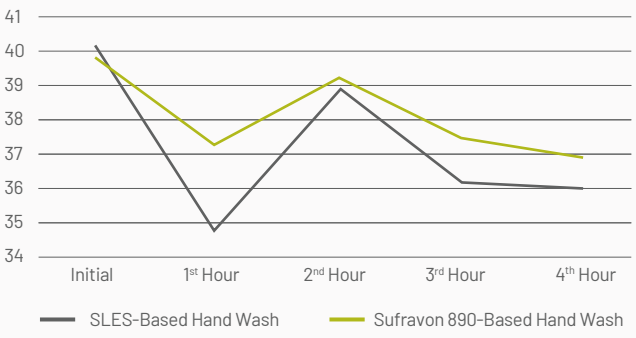
The foam height generated using **Sufravon 868** is comparable to the foam generated using SLES, in contrast APG generated very minimal foam.

SUFRAVON 868 SENSORY EVALUATION AS PRIMARY SURFACTANT IN LIQUID HAND SOAP



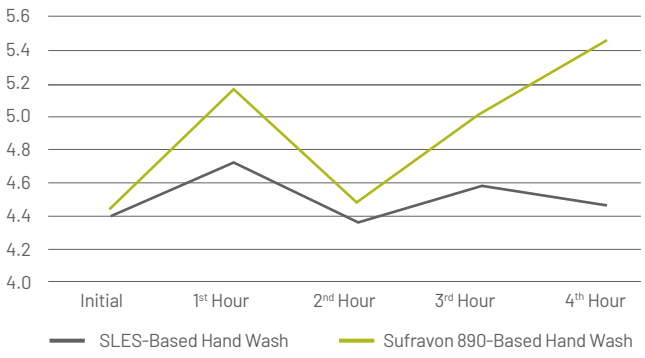
The foaming property of **Sufravon 868** is comparable to SLES. Skin moisturization and smoothness of **Sufravon 868** are comparable to APG.

MOISTURE RETENTION OF SUFRAVON 890



Sufravon 890 hand soap outperforms the SLES-based alternative, maintaining higher skin moisture levels from baseline to the 4th hour based on the Corneometer reading.

SKIN pH UPON APPLICATION OF SUFRAVON 890



Sufravon 890 preserves the normal skin pH, ranging between 4.7 and 5.75.

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Sufrasoft AO

Amine Oxide Surfactant

- Excellent foam booster
- Viscosity builder
- Wide pH range

GREEN CHEMISTRY

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CHEMREZ TECHNOLOGIES

Sufrasoft AO

Amine Oxide Surfactant

AMPHOTERIC FOAM BOOSTER & VISCOSITY BUILDER

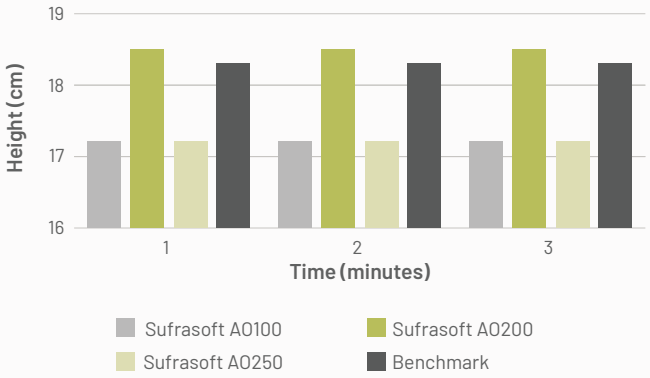
Sufrasoft AO is a coconut-derived amphoteric surfactant with excellent foam boosting and viscosity building ability even in hard water. It can be used in a wide range of pH and is compatible with all types of surfactants, making it ideal for both personal and home care applications.

VARIANT	INCI NAME	RECOMMENDED DOSAGE
SUFRASOFT AO100	Cocamidopropylamine Oxide	0.5% - 15.0%
SUFRASOFT AO200	Lauramine Oxide	0.5% - 15.0%
SUFRASOFT AO250	Cocamine Oxide	0.5% - 15.0%

FORMULATION COMPATIBILITY

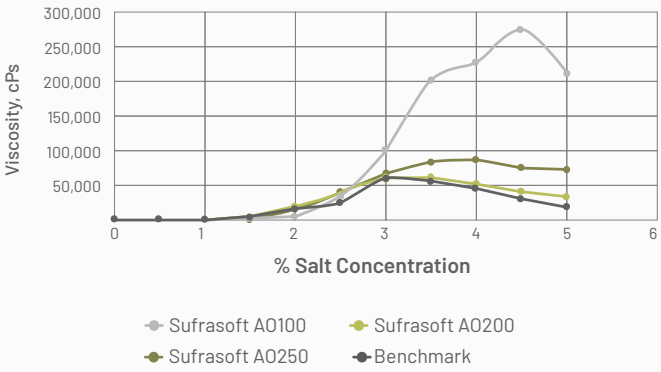
VARIANT	ACID STABLE	ALKALI STABLE	HYDROGEN PEROXIDE COMPATIBLE	SODIUM HYPOCHLORITE COMPATIBLE
Sufrasoft AO100	✓	✓	✓	
Sufrasoft AO200	✓	✓	✓	✓
Sufrasoft AO250	✓	✓	✓	✓

FOAM HEIGHT (1% SOLUTION)



Sufrasoft AO200 has the highest foam among all the samples. Stable foam height was observed for all the samples tested.

SALT CURVE PROFILE



The system with **Sufrasoft AO100** has the highest viscosity with the addition of 4.5% of salt. Second to the highest is **Sufrasoft AO250**, while **Sufrasoft AO200** and the benchmark samples are comparable.

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HALAL

Neosoft

Cationic Conditioning Surfactant

- Does not build up on hair
- Reduces hair static
- Compatible with a wide range of surfactants

GREEN CHEMISTRY

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Neosoft

Cationic Conditioning Surfactant

Neosoft is a plant-based hair conditioning active. It is a cold-processable conditioning active for hair conditioner, conditioning shampoo and hair mask formulations. Delivered in liquid form for easy addition in the formulation.

PHYSICO-CHEMICAL PROPERTIES

BRAND	INCI NAME	SOURCE	DOSAGE	% ACTIVE
Neosoft SD	Stearamidopropyl Dimethylamine Lactate	Palm	2 - 10 %	20% min
Neosoft CD	Cocamidopropyl Dimethylamine Lactate	Coconut	0.5 - 5 %	90% min
Neosoft CQ90	Dicocoylethyl hydroxyethylammonium Methosulfate (and) Cocoglycerides (and) Butylene Glycol	Coconut	0.4 - 2.0%.	95% min

SMOOTHENS HAIR
Lessens hair static & makes hair more manageable

NO BUILD UP
Easy to remove with shampoo and does not build up on hair & scalp

EASY TO USE
Liquid at room temperature and water soluble

TREATS HAIR
Closes hair cuticle for more tamed hair shaft

FRAGRANCE-FREE
Odorless
**Neosoft SD only*

NON-TACKY
Light & non-greasy. Does not weigh hair down

HAIR CONDITIONING PROPERTIES

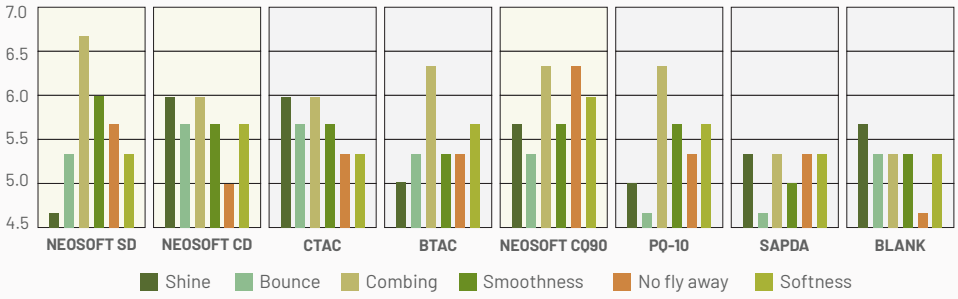
SENSORY EVALUATION

DOSAGE USED BASED ON RECOMMENDED DOSAGE

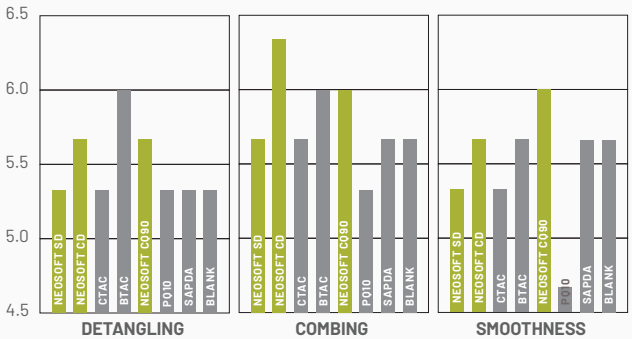
Neosoft SD	12.5
Neosoft CD	3.0
CTAC	5.0
BTAC	2.5
Neosoft CQ90	2.5
Polyquaternium 10 (PQ-10)	0.5
Stearamidopropyl Dimethylamine (SAPDA)	2.5
Blank	

NO. OF PANELISTS: 7

WET HAIR PROPERTIES

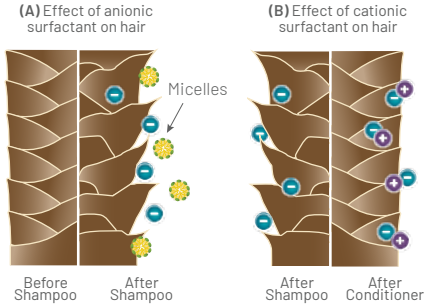


DRY HAIR PROPERTIES



Hair Tresses were carefully washed and applied with a simple hair conditioner formulation with different conditioning ingredients. The Wet and Dry Hair Parameters were tested by our in-house sensory panel, and the results were determined. **Neosoft CD** and **CQ90** has superior performance in Wet Hair, while **Neosoft SD** and **CQ90** has superior performance as well in Dry Hair. Overall the performance of Neosoft is on par with CTAC and BTAC, and they also have synergistic effect with them.

MECHANISM OF ACTION

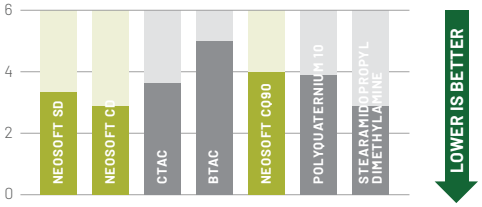


The effect of anionic and cationic surfactants on the hair cuticle.

(A) Anionic surfactants in shampoo may cause the hair cuticles to slightly open, this is due to the surplus of negative charges generating static electricity leading to frizz and friction.

(B) Cationic surfactant **(Neosoft CD)** releases a positive charge that neutralizes the negative charge on the hair cuticle forming a neutral, hydrophobic, cationic-anionic complex. This reduces the static electricity and relaxes the hair cuticle, making it smooth and less frizzy.

COMBING FORCE (IN NEWTONS)



Different hair conditioning actives were tested on a hair tress and combed, and the force used to combed was measured by a force meter. The lower the force, the less effort need to comb through the hair, and therefore better and smoother combability.

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HALAL

Pearlux PB

Pearlizing Agent

- Sulfate-free*
- Compatible with a wide range of surfactants
- Microplastic-free opacifier

GREEN CHEMISTRY

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Pearlux PB

Pearlizing Agent

LIQUID

PEARLUX PB10*
Potassium Cocoate (and) Glycol Distearate (and) Cocamide MEA
Sulfate, PEG, and EO-free

PEARLUX PB40
Glycol Distearate (and) Sodium Laureth Sulfate (and) Laureth-10 (and) Cocamide MEA
Optimum pearlizing effect

PEARLUX PB20*
Potassium Cocoate (and) Glycol Distearate (and) Cocamide MEA (and) Laureth-10
Sulfate and PEG-free, provides more opaque and pearlizing effect

**Sulfate-free*

SOLID

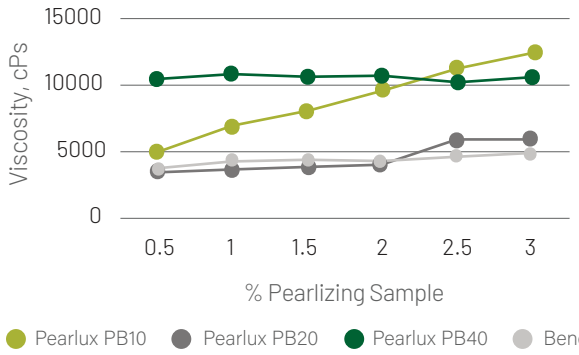
PEARLUX EGDS
Glycol Distearate
Superior pearlizing agent compatible with a wide range of surfactants

PEARLUX EGMS
Glycol Stearate
Opacifying agent compatible with a wide range of surfactants

FEATURES & BENEFITS

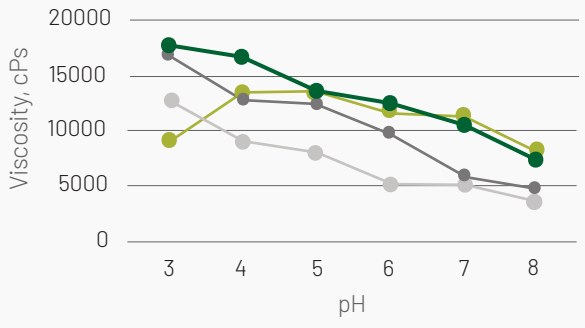
- Offers smooth luster and shimmering effect on personal care and cosmetic products
- Enhances product viscosity
- Can be used in a wide range of pH
- Environmentally friendly

VISCOSITY PROFILE IN SLES SURFACTANT SYSTEM
(15% SLES / 5% Betaine / 5% CMEA)



The viscosity of the system increases as the amount of **Pearlux PB10, Pearlux PB20,** and Benchmark increases. Pearlux PB10 has the highest viscosity among the three samples.

VISCOSITY PROFILE AT DIFFERENT PH
(15% SLES / 5% Betaine / 5% CMEA)



The viscosity of the surfactant system decreases as the pH of the sample becomes more basic

DEGREE OF WHITENESS

FORMULATION

CONDITIONING PEARLIZED SHAMPOO

MATERIALS	INCI NAME	% %
Water	Aqua	q.s
Polyquat-10	Polyquaternium-10	0.50
Glysoft SF	Cocoglycerides	1.00
Methylglycinediacetic Acid	Methylglycinediacetic Acid	0.10
Sufrasoft AO100	Cocamidopropylamine Oxide	8.00
Sufrasoft HS100	Cocamidopropyl Hydroxysultaine	20.00
Suframide 307	Cocamide Methyl MEA	2.0
Phenoxyethanol (and) Ethylhexylgycerin	Phenoxyethanol (and) Ethylhexylgycerin	0.80
Fragrance		0.60
Citric Acid	Citric Acid	0.20
Pearlux PB10	Potassium Cocoate (and) Glycol Distearate (and) Cocamide MEA	2.00

TOTAL: 100

PROCEDURE

In a clean container, disperse Polyquat-10 in water, then mix **Glysoft SF**, and Methylglycinediacetic Acid until homogeneous. Expect rise in viscosity.

Load **Sufrasoft AO100, Sufrasoft HS100,** and **Surfamide 307** one at a time with gentle mixing to prevent bubble formation.

Lastly, add Phenoxyethanol (and) Ethylhexylgycerin , Fragrance, Citric Acid and, **Pearlux PB10**. Mix until homogeneous.

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HALAL

Sufraquat FS

Coconut-Derived Esterquat

- Improves fabric softness
- Better scent retention
- Sustainable

GREEN CHEMISTRY

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Sufraquat FS

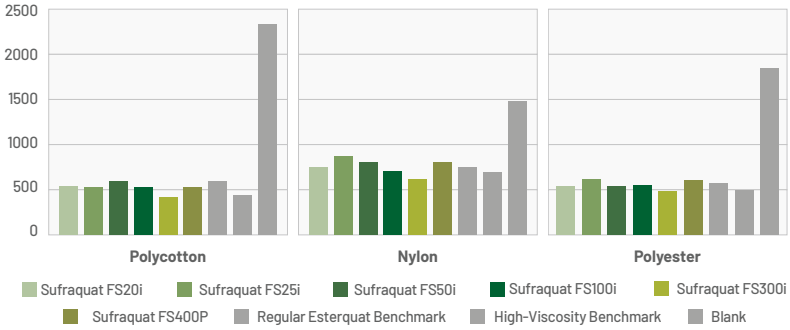
Coconut-Derived Esterquat

DIALKYLESTER AMMONIUM METHOSULFATE

Coconut-derived esterquat used as an active for fabric softener.
It provides excellent smoothness on various types of fabric by getting rid of static. It does not build up on clothes, promoting good rewetting ability.

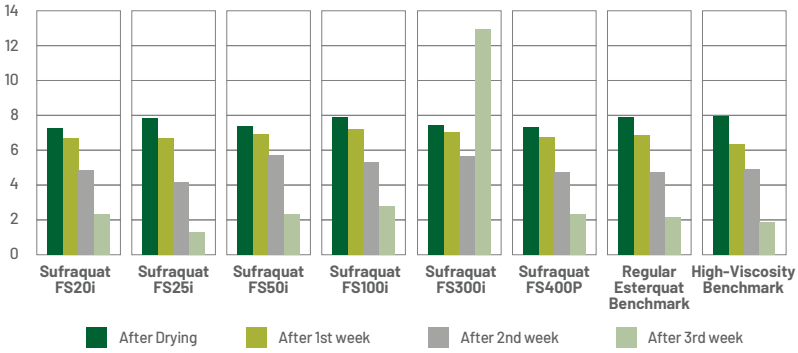
VARIANTS	DOSAGE	VISCOSITY	END-PRODUCT APPEARANCE
Sufraquat FS20i		Regular	Milky Opaque White
Sufraquat FS25i		Low	Slightly Translucent
Sufraquat FS50i		Low	Slightly Translucent
Sufraquat FS100i		Regular	Milky Opaque White
Sufraquat FS300i		High	Semi-Translucent Milky Liquid
Sufraquat FS400P		Low	Clear liquid (in ultra pure formulations)

ANTISTATIC



The fabrics, washed using a standard industrial process, were treated with fabric softeners at a dosage of 0.5% quat based on the wash load. Ultra Stable Surface DC Volt Meter (USSVM2) was then used to measure the static charge, in volts, at a distance of 1 cm from the fabric surface. **Sufraquat FS300i** exhibited the best static reduction among the different fabric types.

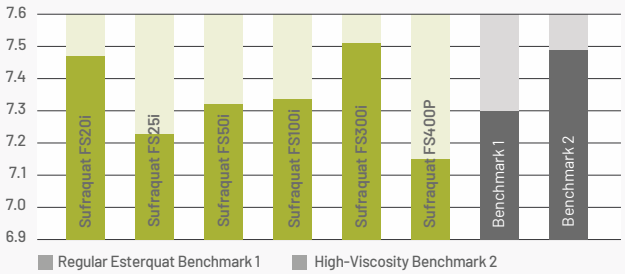
SCENT RETENTION



After three weeks of sensory evaluation of fluffy towels treated with fabric softeners (0.5% quat per wash load), **Sufraquat FS300i** exhibited the best scent retention. The other esterquats performed similarly.

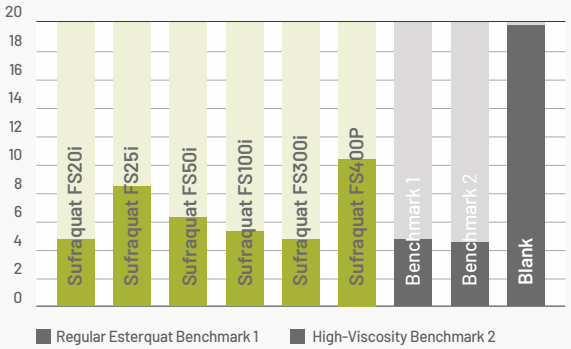
Scores by 15 Respondents in Fluffy Towels (at 0.3% Quat per mass of the fabrics)

SOFTNESS



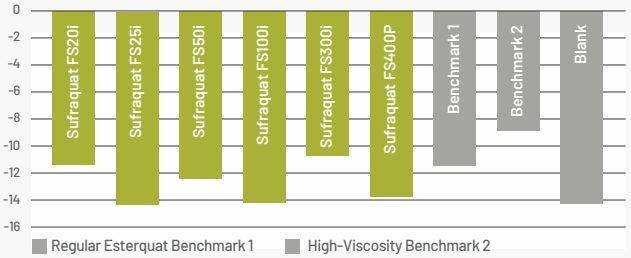
Fluffy towels treated with the fabric softeners were evaluated by a panel of 20 trained sensory panelists. **Sufraquat FS300i** demonstrated the best softening properties, followed by **Sufraquat FS20i.** Both **Sufraquat FS50i and Sufraquat FS100i** matched the softness level of the regular esterquat benchmark.

REWETTABILITY



Rewettability was tested using a dyed water capillary experiment on polycotton fabric strips. **Sufraquat FS400P** and **Sufraquat FS25i** exhibited outstanding performance in this parameter, while the other Sufraquat variants outperformed the benchmarks.

NON-YELLOWING



Polycotton fabric swatches were treated in 20 cycles of washing and fabric softener application. The yellowness index of the fabrics was then measured using a spectrophotometer. They all exhibited negative values, indicating that they were not stained appreciably by the fabric softeners. The Sufraquat variants, meanwhile, exhibited a lower yellowness index than the benchmarks.

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HALAL

Sufraquat BK

Coconut-Derived Disinfectant

- Potent broad-spectrum disinfectant
- Compatible for various surfaces
- Safe and easy to use

GREEN CHEMISTRY

NATURA AEROPACK CORPORATION

A SUBSIDIARY OF CHEMREZ TECHNOLOGIES

Sufraquat BK

Coconut-Derived Disinfectant

BENZALKONIUM CHLORIDE

Potent, long-lasting, and broad-spectrum disinfecting active based on quaternary benzalkonium chloride salt. It is coconut-derived, biodegradable, and non-toxic to users and the environment. **Sufraquat BK** is optimal for cleaning facilities, equipment, and surfaces.

APPLICATIONS

- Hand Disinfectant
- Home Cleaning Products & Toiletries
- Restaurants and other I&I

FEATURES & BENEFITS

- Highly effective with short contact time
- Easy to use and incorporate in formulations
- Safe to use and mild on skin
- Plant-Based
- Paraben Free
- Cruelty-Free & Vegan

VARIANT	PERCENT ACTIVE	RECOMMENDED DOSAGE
SUFRAQUAT BK80	80% Active	0.125% | 0.025%*
SUFRAQUAT BK50	50% Active	0.2% | 0.04%*

*For no-rinse application in food industry

THIRD PARTY LABORATORY TEST RESULTS

TEST ORGANISM	CFU/ML (CONTROL)	CFU/ML AT 5 MINUTES CONTACT TIME	% KILL
Escherichia coli ATCC 25922	6.6×10^8	< 1	99.99%
Pseudomonas aeruginosa ATCC 19429	8.4×10^9 est	24	99.99%
Staphylococcus aureus ATCC 12600	1.4×10^9	< 1	99.99%
Salmonella enterica ATCC 14028	1.1×10^{10} est	< 1	99.99%
Listeria monocytogenes ATCC 19115	1.0×10^{10} est	< 1	99.99%

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حلال HALAL

NatPro 8000

Natural Preservative

PATENT PENDING
PATENT PENDING

- Potent antimicrobial active
- Multifunctional
- Plant-based

Approved by ECOCERT RAW MATERIAL
COSMOS APPROVED

100% NATURAL ISO 16128-1

1.0 RENEWABLE CARBON INDEX

NATURA AEROPACK CORPORATION

A SUBSIDIARY OF CHEMREZ TECHNOLOGIES

Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard.

NatPro 8000

Broad-spectrum Preservative & Refatting Agent

GLYCERYL CAPRYLATE (AND) GLYCERYL CAPRATE (AND) GLYCERYL LAURATE

NatPro 8000 is a broad-spectrum natural preservative and antimicrobial active. This material is a multi-functional ingredient since it also imparts skin refattening and moisturizing. This product is also a natural solution to replace and to boost the efficacy of regulated preservatives such as isothiozolines, benzyl benzoate, hydantoins, and phenoxyethanols. NatPro 8000 is clinically proven to be mild, gentle, and, hypoallergenic.

FEATURES AND BENEFITS

- Natural preservative
- Natural co-emulsifier & superfatting active
- Effective at pH range of 4.0 – 7.0
- Light color and low odor

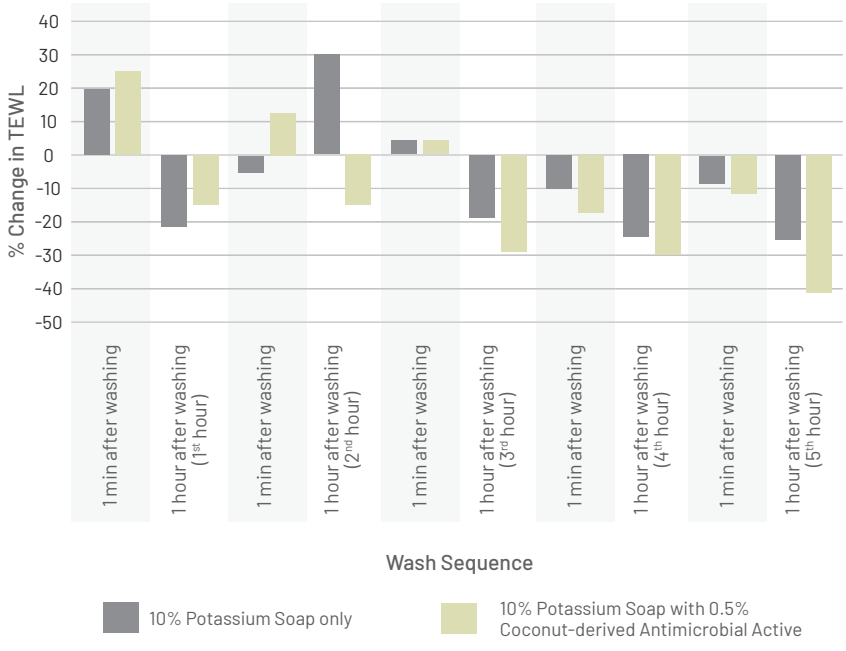
THIRD PARTY LABORATORY TEST RESULT

DETERMINATION OF MINIMUM INHIBITION CONCENTRATION

CONCENTRATION	*BACILLUS SP.* (From Cosmetics)	*S. AUREUS*	*E. COLI*	*K. PNEUMONIEA*	*E. AEROGENES*	*C. ALBICANS*
2.00%	–	–	–	–	–	–
1.50%	–	–	–	–	–	–
1.00%	–	–	–	–	–	–
0.70%	–	–	–	–	–	–
0.50%	–	–	–	–	–	–
0.00%	+	+	+	+	+	+

Minimum inhibitory concentration of **NatPro 8000** against 6 most common microbes that cause cosmetic formulation spoilage. The microdilution method was employed in this study.

ENHANCING THE SKIN'S BARRIER AND MOISTURE



The graph above illustrates the Trans-epidermal Water Loss (TEWL) data resulting from hourly hand washing using soap samples, both with and without the inclusion of **Natpro 8000**. The data is presented as a percentage change, wherein lower TEWL values indicate improved skin moisture retention and a stronger skin barrier function.

AS ACTIVE FOR ALCOHOL-FREE DISINFECTANTS

A 1% solution of **NatPro 8000** exhibits a consistent 100% bactericidal efficacy against common hand bacteria, including dangerous pathogens such as *Klebsiella pneumoniae* and *Escherichia coli*. These findings underscore its effectiveness as a reliable antibacterial agent, offering a dependable solution for robust hand hygiene and maximum protection.

SAMPLE FORMULATION

ALCOHOL-FREE SANITIZER

MATERIALS	INCI NAME	%
Water	Aqua	q.s
NatPro 8000	Glyceryl Caprylate (and) Glyceryl Caprate (and) Glyceryl Laurate	1.25
Solubilizer	PEG-40 Hydrogenated Castor Oil	1.35
Fragrance		0.10
		TOTAL: 100

PROCEDURE

1. Load **NatPro 8000**, PEG-40 Hydrogenated Castor Oil and the fragrance in a clean container.
2. Homogenize the bulk.
3. Load water in the container.
4. Mix until a translucent consistency is obtained.

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HALAL

Sufravon SN100

Coconut-based Soap Noodles

With built-in moisturizer

100% Natural

Sustainable

100% NATURAL ISO 16128-1

1.0 RENEWABLE CARBON INDEX

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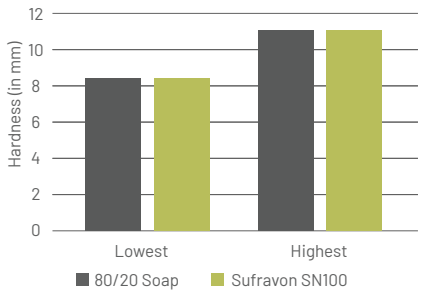
Sufravon SN100

Coconut-based Soap Noodles

SODIUM COCOATE

Sufravon SN100 is a 100% coconut-derived soap noodles. It contains natural glycerin from coconut oil that acts as a humectant to balance and maintain the natural moisture of the skin. It can be used in the formulation of different toiletries and beauty bar soaps. It produces white, creamy, and fine lather.

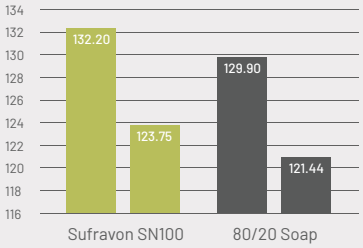
BAR SOAP HARDNESS
(PENETROMETER)



From three penetrometer measurements, the minimum and maximum values were taken to assess hardness. Both bar soap samples produced identical minimum and maximum readings, indicating they are comparable in terms of hardness.

While there is no fixed range that determines the optimal soap hardness, it is an indication of the soap's malleability when held by consumers and the quality of the final product.

MUSHINESS



	Sufravon SN100	80/20 Soap
Initial Weight of Bar	132.20	129.90
Final Weight of Bar	123.75	121.44
Weight of Mush	8.45	8.46
Mush Weight Fraction	0.06	0.07
% Difference	-6.39	-6.51

It is noted that **Sufravon SN100** bar soap is much softer after the first few hours of immersion, but the amount of mush is the same after 24 hours even for the 80/20 bar soap.

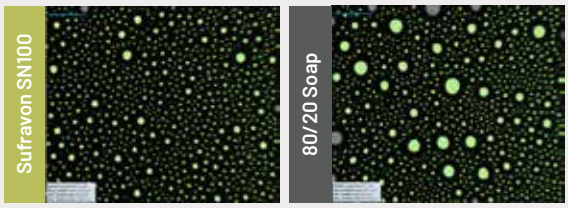
CRACKING EVALUATION

80/20 Soap Score: 0

Sufravon SN100 Score: 1

According to the bar soap evaluations, **Sufravon SN100** received a face cracking score of **1**, which is considered **acceptable.**

FOAM STRUCTURE



Foam Structure Image

	Sufravon SN100	80/20 Soap
Bubble Count/mm^2	43.003	41.372
Mean Bubble Area (in μ^2)	23254	24171
Min. Bubble Area (in μ^2)	4832	4832
Max. Bubble Area (in μ^2)	188531	493402

Using DFA 100 Dynamic Foam Analyzer, we compared the foam characteristics of Sufravon SN100 and 80/20 soap noodles. **Sufravon SN100** can give you creamier foam with smaller bubbles even after 5 minutes of use.

APPLICATIONS

1 **Bar Soap**
Procedure: Plodder

2 **Translucent Solid Products**
Procedure: Melt and pour

3 **Liquid Concentrate**
Procedure: Heating

Scan the QR code to view examples of formulations.

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HALAL