NATURA AEROPACK CORPORATION

COCONUT INGREDIENTS

CLEAN · GREEN · SUSTAINABLE

GREEN CHEMISTRY

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 Potassium Soap
Home Care Formulations

SUFRAVON 868
Potassium Cocoate
Personal/Home Care Formulations

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

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

SUFRAVON 875
Potassium Laurate
Personal Care Formulations

SOLID

SUFRAVON SN100 (SOAP NOODLES)
SUFRAVON SP200 (POWDER)
Sodium Cocoate
Personal/Home Care Formulations

SUFRAVON SCI80F (FLAKES)
SUFRAVON SCI80P (POWDER)
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 182/190/191
Cocodiethanolamide (CDEA)
82-90% Active
EO-free

SUFRAMIDE LD
Lauramide DEA
90% Active
EO-free

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

MILD WASHES
WIDE PH RANGE SURFACTANTS

CALIFORNIA PROPOSITION 65 PROP 65 COMPLIANT

SUFRASOFT CB30
Cocamidopropyl Betaine
30% Active

SUFRASOFT CB45
Cocamidopropyl Betaine
40% Active

SUFRASOFT CB140
Cocamidopropyl Betaine
Glycerin-free

SUFRASOFT LB30
Lauramidopropyl Betaine
30% Active

SUFRASOFT AO100
Cocamidopropylamine Oxide

SUFRASOFT AO200
Lauramine Oxide

SUFRASOFT AO250
Cocamine Oxide

SUFRASOFT HS100
Cocamidopropyl Hydroxysultaine

SUFRASOFT HS200
Lauramidopropyl Hydroxysultaine

SUFRASOFT HS600
Lauryl Hydroxysultaine

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

HALAL · CRUELTY FREE · SUSTAINABLE · COCONUT DERIVED

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

PEARLUX PB*
Cold-processable pearlizing agent

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

EMULSIER GMS 100/200
Glyceryl Stearate
Low HLB emulsifier

EMULSIER GML
Glyceryl Laurate
Coconut-derived emulsifier

EMULSIER PGE
Polyglycerol Esters
Coconut-derived solubilizer

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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Coco Emollients

PETROLEUM-FREE MOISTURIZER

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

100% NATURAL ISO 16128-1

1.0 RENEWABLE CARBON INDEX

Cocolatum

Approved by ECOCERT RAW MATERIAL COSMOS APPROVED

PETROLATUM ALTERNATIVE

SKIN PROTECTANT

Natural and petroleum-free, helps retain skin moisture. Use as an ointment to help treat rashes, eczema and other related skin disease.

COCOLATUM 501

For intense moisturization

COCOLATUM 503

100% plant-derived for intense moisturization

Glyzer CB100

Approved by ECOCERT RAW MATERIAL COSMOS APPROVED

SHEA BUTTER ALTERNATIVE

COCONUT 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.

Glyzer CT

Approved by ECOCERT RAW MATERIAL COSMOS APPROVED

COCO MCT

Helps maintain skin moisture, resulting in a more supple and healthy appearance. Additionally, it is an effective carrier for UV filters and pigments in skincare and cosmetics products.

GLYZER CT100
Light emollient

GLYZER CT200
Medium-spreading emollient

GLYZER CT500
UV filter dispersing agent and solubilizer

GLYZER CT600
Dry Oil Feel

COCOLATUM SKIN PROTECTANT

PRODUCT	INCI NAME	APPLICATION
COCOLATUM 501	Cocoglycerides, *Cera alba* (Beeswax), *Euphorbia cerifera* (Candelilla) Wax	Moisturizer, Ointment, Lubricant, Hand Balm, Body Butter
COCOLATUM 503	Cocoglycerides (and) *Oryza sativa* (Rice) Bran Wax (and) *Euphorbia cerifera* (Candelilla) Wax	Moisturizer, Ointment, Lubricant

GLYZER CT SKIN CARE EMOLLIENTS

PRODUCT	INCI NAME	APPLICATION
GLYZER CT100	Caprylic/Capric Triglyceride	Baby Oil, Face Oil, Beauty Elixir
GLYZER CT200	Caprylic/Capric/Lauric Triglyceride	Light Body Oil, Massage Oil
GLYZER CT500	Modified Cocoglycerides	UV Filter and Pigment Solubilizer
GLYZER CT600	Tricaprylin	Cosmetics, Face Moisturizer

GLYZER CB SKIN MOISTURIZER

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

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 FS25I	Dialkylhydroxyethylammonium Methosulfate, Isopropyl Alcohol	Fabric Softener (High active for very low-viscosity formulations)
SUFRAQUAT FS50I	Dialkylhydroxyethylammonium Methosulfate, Isopropyl Alcohol	Fabric Softener (Easily processable, non-viscosity building)
SUFRAQUAT FS100I	Dialkylhydroxyethylammonium Methosulfate, Ethyl Alcohol	Fabric Softener (Easily processable, medium-viscosity building)
SUFRAQUAT FS200I	Dialkylhydroxyethylammonium Methosulfate, Isopropyl Alcohol	Fabric Softener (Low-dosage, high-viscosity formulations)
SUFRAQUAT BK80	Benzalkonium Chloride (80% Active)	Cleaning facilities, equipment, and surfaces
SUFRAQUAT BK50	Benzalkonium Chloride (50% Active)	Multipurpose cleaner and disinfectant
NATPRO 8000	Glyceryl Caprylate, Glyceryl Caprate, Glyceryl Laurate	Natural Preservative (Broad-Spectrum)

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) Glycerin (and) Stearamidopropyl Dimethylamine Lactate	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
SUFRAPURE CS10	Cetearyl Alcohol (and) Dicocoylhydroxyethylammonium Methosulfate (and) Cocamidopropyl Dimethylamine (and) *Cocos nucifera* (Coconut) Seed Butter (and) Cocoglycerides (and) Lactic Acid	Hair Conditioning 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

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

1

Add water

2

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

3

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

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

Cocolatum

Moisturizing Skin Protectant

Cocolatum 501

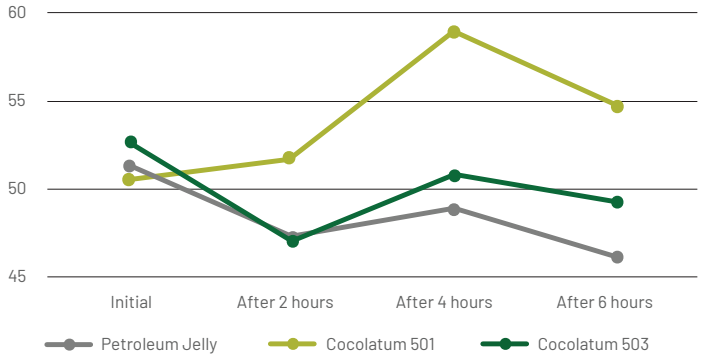
Cocoglycerides (and) *Cera alba* (Beeswax) (and) *Euphorbia cerifera* (Candelilla) Wax

Cocolatum 503

Cocoglycerides (and) *Euphorbia cerifera* (Candelilla) Wax (and) *Oryza sativa* (Rice) Bran Wax

VEGAN

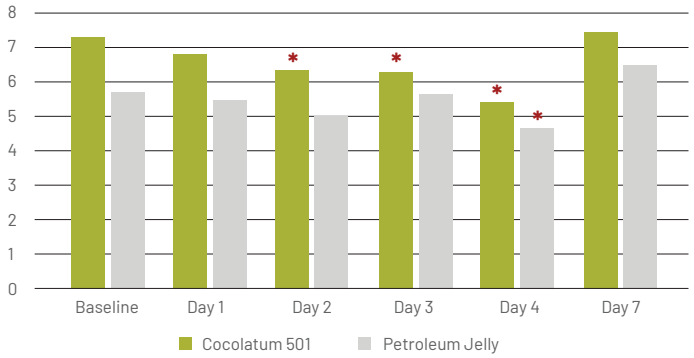
CORNEOMETER | SKIN MOISTURIZATION



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

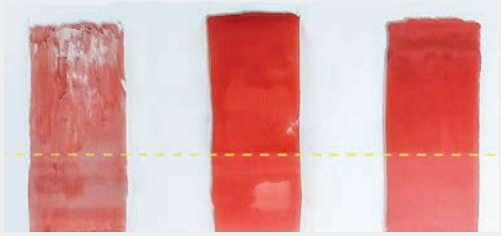
PERCENT TEWL DECREASE

TRANSEPIDERMAL WATER LOSS



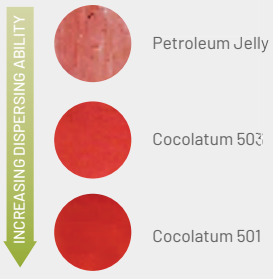
Among the 15 respondents, the reduction in TEWL with the application of **Cocolatum 501** is notably lower than that observed with Petrolatum on Day 2, Day 3, and Day 4 of usage.

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 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 Light Emollients

SILICONE AND MINERAL OIL ALTERNATIVE

Approved by ECOCERT RAW MATERIAL

COSMOS APPROVED

COCO MCT®

- Light and non-tacky
- Mild and moisturizing
- Excellent UV filter and pigment dispersant

100% NATURAL ISO 16128-1

1.0 RENEWABLE CARBON INDEX

NATURA AEROPACK CORPORATION

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

Glyzer CT

Coconut Light Emollients

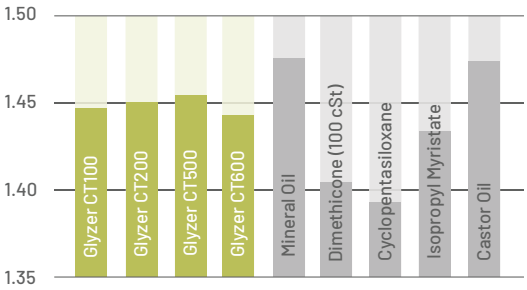
Sustainable coconut-derived light emollients, eco-friendly, and safer alternative to cyclic siloxanes. Ideal for leave-on personal care products like creams and lotions, replacing petroleum-derived mineral oil.

- 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	Light spreading emollient
Glyzer CT200	Caprylic/Capric/ Lauric Triglyceride	Medium spreading emollient with Lauric acid
Glyzer CT500 +SPF 5	Cocoglycerides	UV filter solubilizer and pigment dispersing agent
Glyzer CT600	Tricaprylin	Dry Oil Feel

REFRACTIVE INDEX

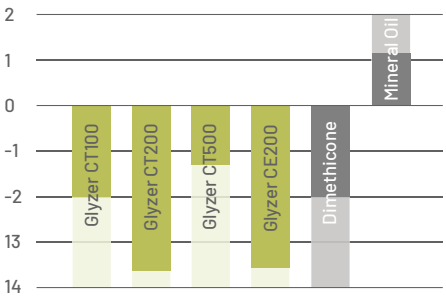


The refractive index represents the ratio of the speed of light in a vacuum to the speed of light in the medium under consideration.

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.

% TRANSEPIDERMAL WATER LOSS (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 CT100 has the most decrease in TEWL, hence, the best moisturizing emollient.

APPLICATION PROPERTIES

SMOOTHENING AND REPAIRING PROPERTY

BEFORE APPLICATION

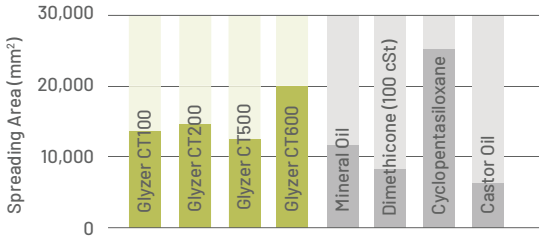
AFTER APPLICATION

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.

SUNCREEN SOLUBILITY

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

IN-VITRO SPREADABILITY



Glyzer CT100, CT200, CT500 and **CT600**, can give light to 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

NATURA AEROPACK CORPORATION

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

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

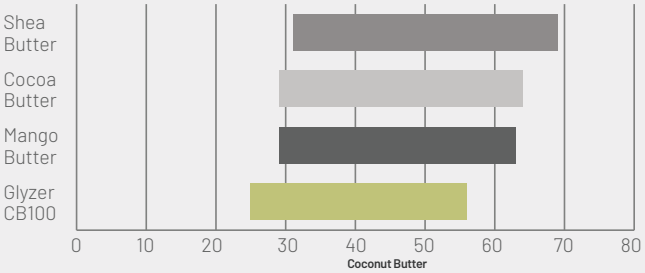
FRAGRANCE FREE
No coconut smell

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

MELTS ON SKIN
Low melting point, closer to body temperature

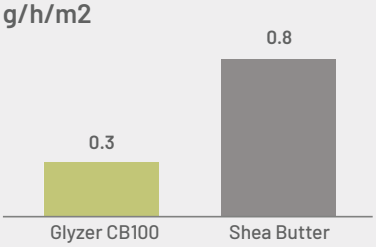
PHYSICO-CHEMICAL PROPERTIES

MELTING POINT RANGE



Glyzer CB100 has lower melting point than the rest of the samples. It is also closer to body temperature which means it can be easily spread on skin and will impart less greasy feel.

TEWL/MEASUREMENT g/h/m2



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

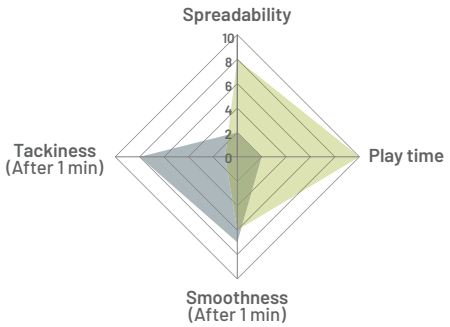
Lotion with **Glyzer CB100** has lower TEWL than the lotion with Shea Butter. This means that **Glyzer CB100** can improve skin's ability to retain moisture.

FORMULATION

	INGERDIENTS	INCI NAME	FUNCTION	%
Phase A	Demineralized Water	Aqua	Diluent	q.s to 100
	Chelating Agent	Methylglycinediacetic Acid	Chelating Agent	0.10
Phase B	**Glysoft RG**	Glycerin	Humectant	5.00
	Polymer Thickener	Sodium Acrylates Copolymer (and) Lecithin	Rheology Modifier	1.00
	Gum	Xanthan Gum	Rheology Modifier	0.50
Phase C	**Glyzer CB100**	*Cocos nucifera* (Coconut) Seed Butter	Emollient	5.00
	Cetyl Alcohol	Cetyl Alcohol	Emulsifier	2.00
	Glyzer CT200	Caprylic / Capric / Lauric Triglyceride	Emollient	10.00
	Emulsifier System	Glyceryl Stearate Citrate, Polyglycerol Polyricinoleate, Sorbitan Isostearate, Triethylhexanoin	Emulsifier	1.00
	Vitamin E	Tocopheryl Acetate	Antioxidant	0.10
Phase D	Fragrance		Fragrance	0.20
	Preservative	Phenoxyethanol (and) Ethylhexylglycerin	Preservative	0.80
	Lactic Acid	Lactic Acid	pH Modifier	q.s

SENSORY EVALUATION

GLYZER CB100 VS. SHEA BUTTER



PROCEDURE

In two separate containers, mix all ingredients under Phase A and Phase B.
Combine Phase A and B and heat to 70°C.
In a separate vessel, heat Phase C to 70°C.
Once fully melted, add Phase C to Phase AB, and cool down to 40°C.
At 40°C add Phase D to Phase ABC.

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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

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

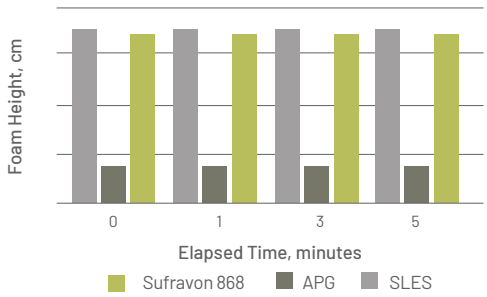
Excellent stain removing property

SUFRAVON VARIANTS

PRODUCTS	SUFRAVON 820	SUFRAVON 840GV2*	SUFRAVON 874*
INCI Name	Potassium Cocoate (and) Palmitate	Potassium Cocoate (C12 - C18)	C12 - C18 Potassium Soap
Main Composition	Coconut Oil (and) Palm Oil	Fractionated Coconut Oil	Coconut Oil (C12 - C18)
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

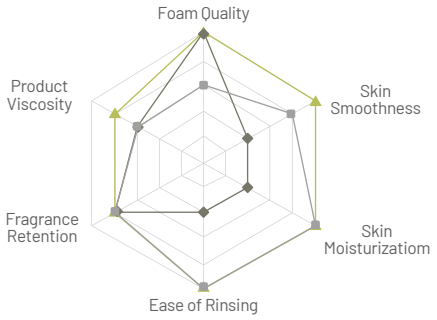
FOAM HEIGHT OF SUFRAVON 868 VS. SLES AT 1% SOLUTION



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

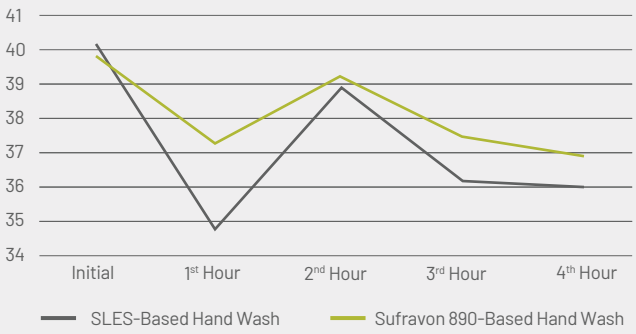
The foam height generated using **Sufravon 868** is comparable to the foam generated using SLES, in contrast APG generated very minimal foam.

SUFRAVON 868 SENSORY EVALUATION AS PRIMARY SURFACTANT IN LIQUID HAND SOAP



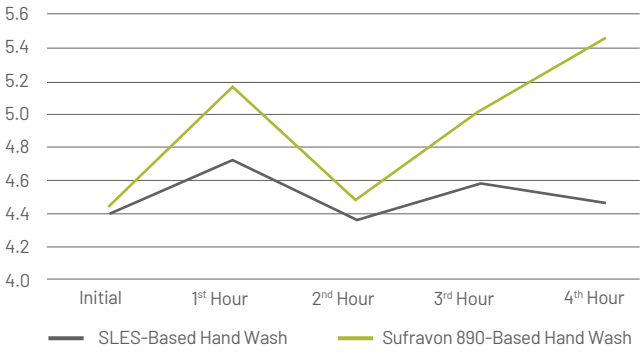
The foaming property of Sufravon 868 is comparable to SLES. Skin moisturization and smoothness of Sufravon 868 are comparable to APG.

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.

HALAL

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Sufrasoft AO

Amine Oxide Surfactant

- Excellent foam booster
- Viscosity builder
- Wide pH range

GREEN CHEMISTRY

NATURA AEROPACK CORPORATION

Sufrasoft AO

Amine Oxide Surfactant

AMPHOTERIC FOAM BOOSTER & VISCOSITY BUILDER

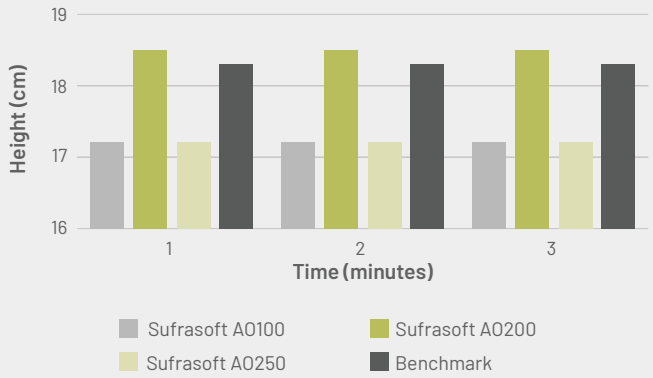
Sufrasoft is a coconut-derived amphoteric surfactant with excellent foam boosting and viscosity building ability even in hard water. It can be used in a wide range of pH and is compatible with all types of surfactants, making it ideal for both personal and home care applications.

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

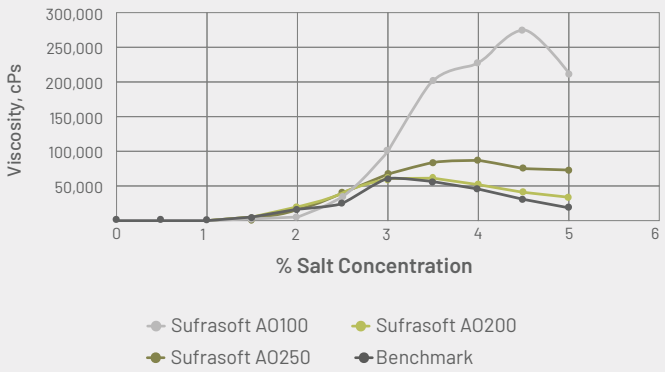
VARIANT	ACID STABLE	ALKALI STABLE	HYDROGEN PEROXIDE COMPATIBLE	SODIUM HYPOCHLORITE COMPATIBLE
Sufrasoft AO100	✓	✓	✓	
Sufrasoft AO200	✓	✓	✓	✓
Sufrasoft AO250	✓	✓	✓	✓

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

NATURA AEROPACK CORPORATION

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

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

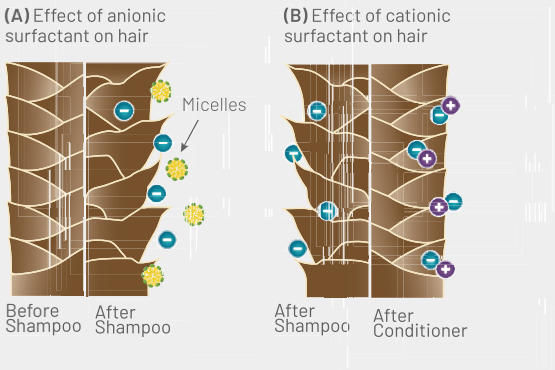
EASY TO USE
Liquid at room temperature and water soluble

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

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.

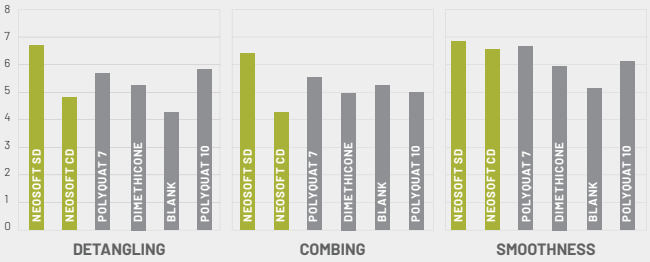
(B) Cationic surfactant **(Neosoft CD)** releases a positive charge that neutralizes the negative charge on the hair cuticle forming a neutral, hydrophobic, cationic-anionic complex. This reduces the static electricity and relaxes the hair cuticle, making it smooth and less frizzy.

APPLICATION BENEFITS
SENSORY EVALUATION

Conditioning Agent	Recommended Dose (in%)	Dosage used (Median Value)
Polyquaternium 7	2 - 5	3.5
Polyquaternium 10	0.25 - 0.5	0.375
Neosoft SD	2 - 10	6
Neosoft CD	0.5 - 5	2.75
Dimethicone	0.5 - 5	2.75

NO. OF PANELISTS: 7

WET HAIR PROPERTIES



For all wet hair properties, **Neosoft SD** has outperformed all other hair conditioning agents. **Neosoft CD** gave comparable results to Polyquat 7 and **Neosoft SD** in terms of smoothness.

DRY HAIR PROPERTIES

Out of all the hair conditioning agents, **Neosoft SD** outperformed them all when it comes to shine. The best performing conditioning agent when it comes to dry combing is **Neosoft CD.** **Neosoft CD** and **Neosoft SD** tied as the best in hair smoothening effect, outperforming Polyquat 7.

SAMPLE FORMULATION
HAIR CONDITIONER

	MATERIALS	INCI NAME	%
Phase A	Demineralized Water	Aqua	q.s
	Chelating Agent	Methylglycinediacetic Acid	0.10
	Glysoft RG	Glycerin	2.00
Phase B	Cetyl Alcohol	Cetyl Alcohol	5.00
	Glyzer CT200	Caprylic/Capric/Lauric Triglyceride	3.00
	BTAC	Behentrimonium Chloride	2.00
	CTAC	Cetrimonium Chloride	3.00
Phase C	**Neosoft SD**	Stearamidopropyl Dimethylamine Lactate	2.00
	Antioxidant	D-Panthenol	0.50
	Preservative	Phenoxyethanol (and) Ethylhexylglycerin	0.80
	Vacuum Salt	Sodium Chloride	0.50

TOTAL: 100

PROCEDURE

Phase A: Load Water in a clean container. Add Chelating Agent and **Glysoft RG,** Heat to 65-70°C.
Phase B: In a separate container, combine Cetyl Alcohol, **Glyzer CT200,** BTAC and CTAC. Heat to 65-70°C.
Mix Phase A and Phase B
Cool down to 40-45°C.
Load **Neosoft SD**, Antioxidant, Preservative and Vacuum Salt.

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HALAL

Pearlux PB

Pearlizing Agent

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

GREEN CHEMISTRY

NATURA AEROPACK CORPORATION

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

SOLID

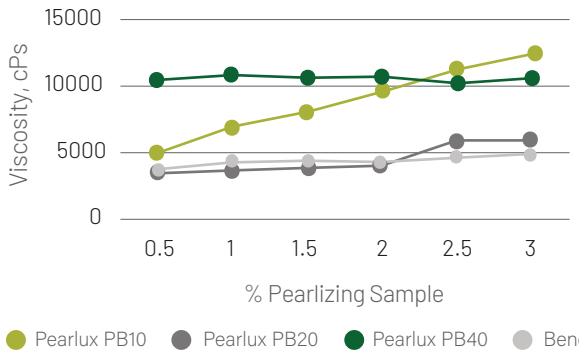
PEARLUX EGDS
Glycol Distearate
Superior pearlizing agent compatible with a wide range of surfactants

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

FEATURES & BENEFITS

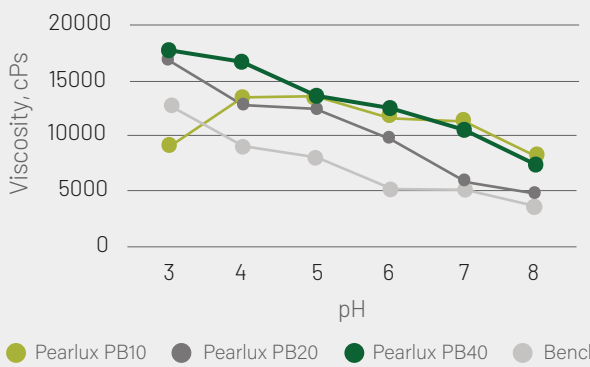
- Offers smooth luster and shimmering effect on personal care and cosmetic products
- Enhances product viscosity
- Can be used in a wide range of pH
- Naturally-derived from sustainable coconut oil
- Environmentally friendly

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		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

NATURA AEROPACK CORPORATION

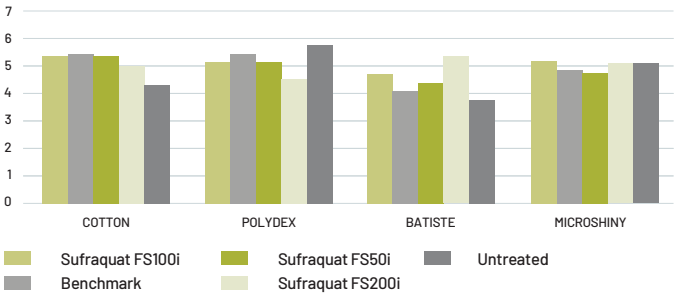
Sufraquat FS

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.

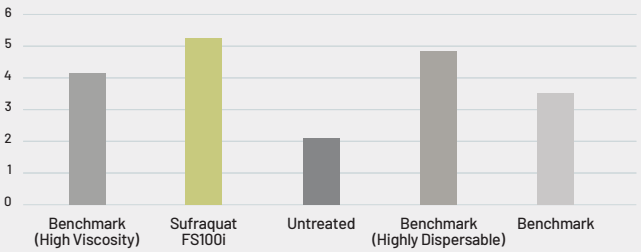
VARIANTS	FUNCTION	END-PRODUCT **APPEARANCE**	EASE OF **HANDLING**	END-PRODUCT **VISCOSITY**
Sufraquat FS25i	High active for very low-viscosity formulations	Translucent Liquid	●●●●●	●
Sufraquat FS50i	Easily processable, non-viscosity building	Slightly Translucent	●●●●	●●
Sufraquat FS100i	Easily processable, medium-viscosity building	Opaque White	●●	●●●
Sufraquat FS200i	Low-dosage, high-viscosity formulations	Opaque White	●●●	●●●●●



CLOTH SOFTNESS

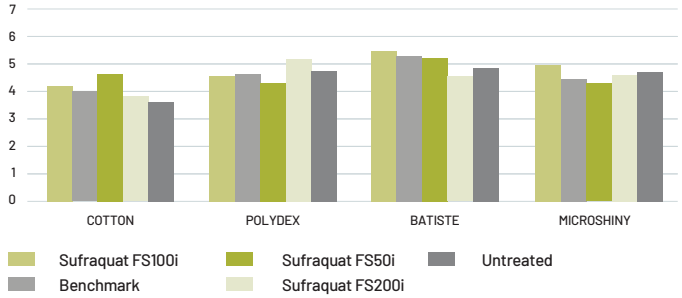
Sufraquat FS100i, FS50i, and Benchmark (High Viscosity) are comparable in softening cotton. Benchmark (High Viscosity) is better in polydex fabric.

Sufraquat FS100i and FS200i are better in batiste and microshiny fabrics.



SCENT RETENTION

Sufraquat FS100i outperformed Benchmark (High Viscosity), Benchmark (Highly Dispersable) and Benchmark in retaining scent in the fabric.



WRINKLE REDUCTION

Sufraquat FS50i has the best performance in cotton fabric.
Sufraquat FS200i has the best performance in polydex fabric.
Sufraquat FS100i has the best performance in batiste fabric.

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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

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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HALAL

NatPro 8000

Natural Preservative

- Potent antimicrobial active
- Multifunctional
- Plant-based

Approved by ECOCERT RAW MATERIAL

COSMOS APPROVED

100% NATURAL ISO 16128-1

1.0 RENEWABLE CARBON INDEX

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

NATURA AEROPACK CORPORATION

NatPro 8000

Broad-spectrum Preservative & Refatting Agent

GLYCERYL CAPRYLATE, GLYCERYL CAPRATE, 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 replacing and boosting 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

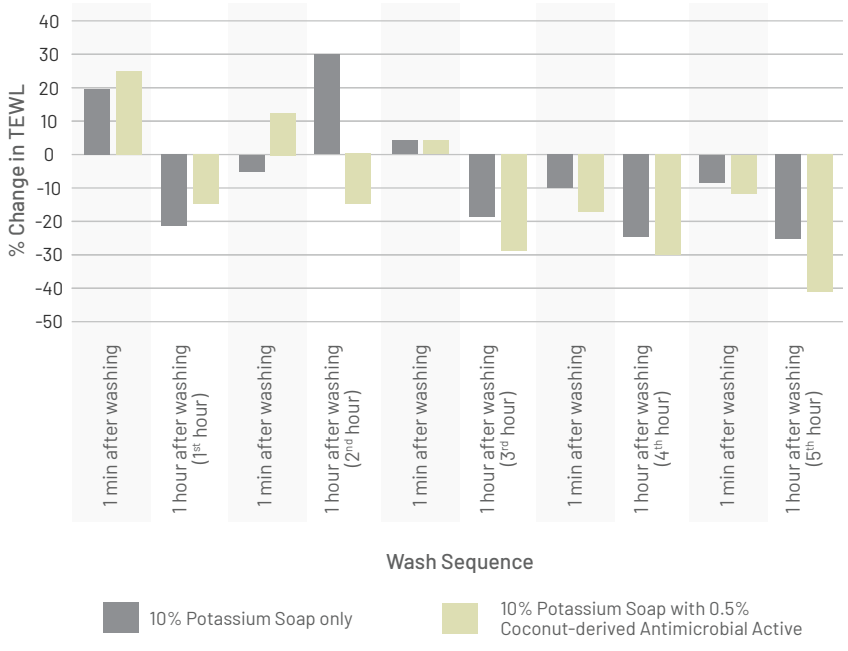
THIRD PARTY LABORATORY TEST RESULT

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, Glyceryl Caprate, Glyceryl Laurate	1.25
Solubilizer	PEG-40 Hydrogenated Castor Oil	1.35
Fragrance		0.10
		TOTAL: 100

PROCEDURE

Load **NatPro 8000**, PEG-40 Hydrogenated Castor Oil and the fragrance in a clean container.

Homogenize the bulk.

Load water in the container.

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

NATURA AEROPACK CORPORATION

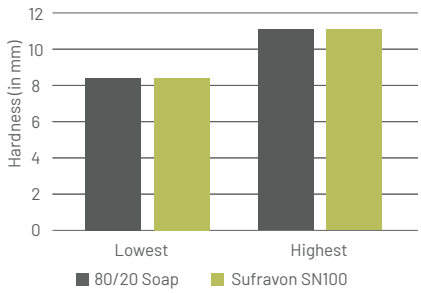
Sufravon SN100

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.

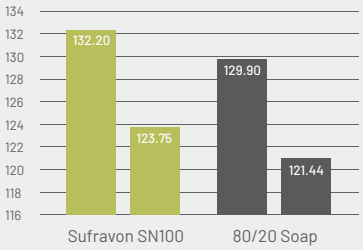
BAR SOAP HARDNESS
(PENETROMETER)



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.

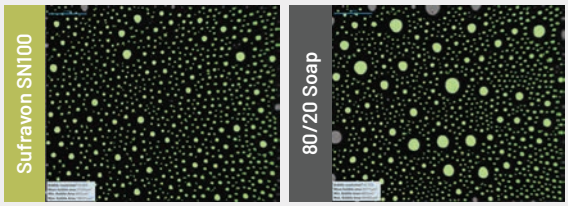
CRACKING EVALUATION

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.

APPLICATION

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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