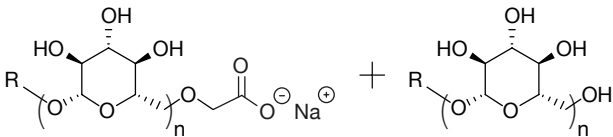




# AKYPO SUGAR LM 42

Natural, mild and performing

INCI: **Sodium Lauryl Glucose Carboxylate, Lauryl Glucoside.**



## PRODUCT PROFILE

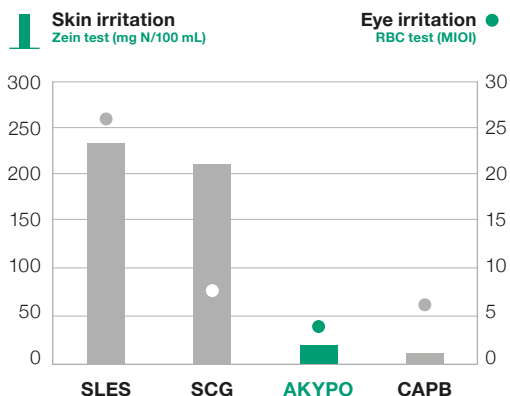
Character	Anionic, non-ionic
Appearance at 20 °C	Turbid liquid
Dry matter (%)	38 – 42%
pH (as it is)	11 – 12
Preservative	Self-preserved

## SUSTAINABLE ATTRIBUTES

- 96% NOC (ISO 16128)
- Readily biodegradable
- No aquatic toxicity
- **COSMOS APPROVED**

## MILDNESS

AKYPO SUGAR LM 42 is an extremely mild surfactant to skin and eyes.



SLES: Sodium Laureth Sulfate, SCG: Sodium Cocoyl Glutamate, CAPB: Cocamidopropyl Betaine.

## BENEFITS

- Sulfate-Free, EO-Free (1,4 Dioxane-Free)
- Outstanding mildness
- Good foaming
- Easily thickened with natural thickeners
- Cold processable
- Clear formulations
- Performing over a wide pH range

## Applications

Shampoo, Face Cleansers, Shower Products, Baby Cleansing Products.

## Recommended Dosage

Main surfactant: 10 – 35%  
Co-surfactant: 5 – 10%

## Inventories

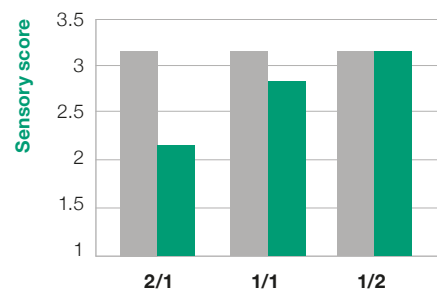
EU (REACH), US (TSCA) IECIC (Existing Cosmetic Ingredients-CHINA).

## FOAM PROPERTIES

AKYPO SUGAR LM 42 provides high foam volume in clean conditions. In the presence of sebum, it provides high foam volume in combination with CAPB.

## Foam volume with sebum Bey

ANIONIC/CAPB (active ratio)  
Sensory evaluation on hair tresses, N=6



■ SLES/CAPB  
■ ANIONIC/CAPB (active ratio)  
■ AKYPO/CAPB



Sensory score = 3



Sensory score = 1

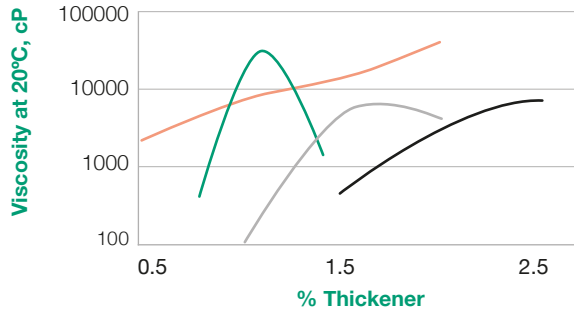
The combination of AKYPO with CAPB can provide the same foam volume as SLES/CAPB.





**THICKENING ABILITY**

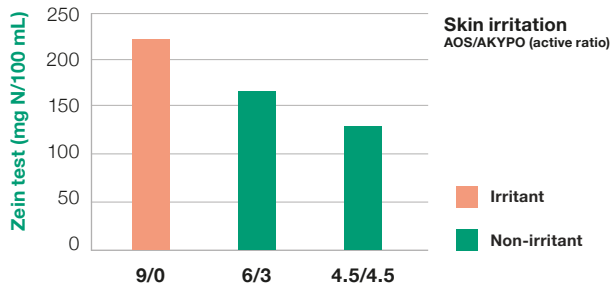
**AKYPO SUGAR LM 42** can easily reach high viscosities with natural thickeners, maintaining a clear appearance. EXCEPARL LM-LC provides high viscosity at low concentrations.



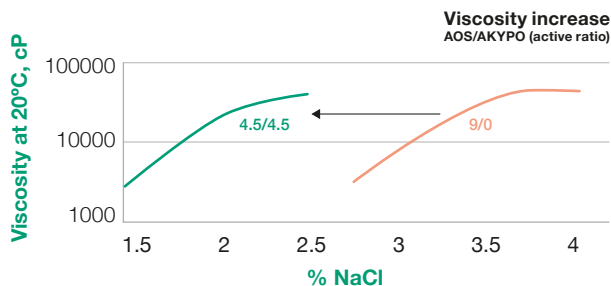
**Thickening agents:** EXCEPARL LM-LC (Lauryl Lactate), Xanthan Gum, Sorbitan Caprylate and Glyceryl Oleate, Cocamide DIPA.  
**Composition:** AKYPO SUGAR LM 42/CAPB (2/1), 12% active, pH=5.0

**COST-EFFECTIVE FORMULATIONS**

Low additions of AKYPO have a big impact in reducing the skin irritation level of Sulfate-Free formulation based on AOS.



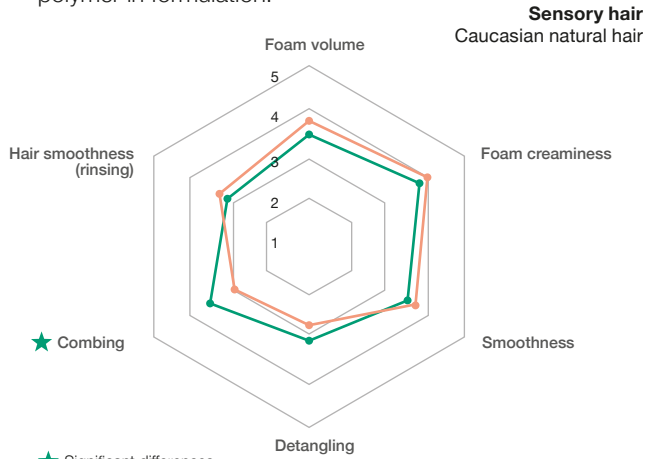
The thickening ability is also improved, reducing the amount of NaCl to increase viscosity.



**Composition:** ANIONIC/CAPB, 9/3, 12% active, pH=5.0 ANIONIC: AOS/AKYPO  
**AOS:** Sodium C14-16 Olefin Sulfonate.

**PERFORMANCE ON HAIR**

AKYPO provides better combing force than SLES. Suitable for caring shampoos or to reduce cationic polymer in formulation.



★ Significant differences  
**SLES AKYPO SUGAR LM 42**  
**Composition:** ANIONIC/CAPB (2/1), 12% active + 0.3% PQ-10, pH=6.0

**FORMULATION TIPS**

To achieve clear and stable solutions it is advisable to combine **AKYPO SUGAR LM 42** with Alpha-Hydroxy Acids (AHAs).

\* AHA examples: Citric acid, Lactic acid, Glycolic acid

$$g \text{ AHA (50\%)} = g \text{ AKYPO SUGAR LM 42} / 10$$

Ref. C-350 CARING SHAMPOO	%
<b>AKYPO SUGAR LM 42</b>	20.8
<b>BETADET SHR</b> Cocamidopropyl Hydroxysultaine	17.0
<b>EXCEPARL LM-LC</b> Lauryl Lactate	1.2
Kao Fragrance	0.5
Guar Hydroxypropyltrimonium Chloride	0.3
Preservative	q.s.
Citric Acid	q.s.
Deionized water	Up to 100

Appearance	clear
pH (100%)	4.5 – 5.0
Viscosity at 20 °C (cP)	≈ 7,000

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