

AKYPO® FOAM LM 25

ULTRA-MILD SURFACTANT
SOFT & CREAMY FOAM TEXTURE
MICRO-BUBBLE SIZE

MILD CLEANSER
WITH A CREAMY, GENTLE
AND RICH FOAM

KAO'S SURFACTANT TECHNOLOGY APPLIED TO PERSONAL CARE



AKYPO® FOAM LM 25

Rich & creamy foam

AKYPO® FOAM LM 25 is an anionic surfactant that offers all the properties required for ultra-mild cleansing products.

The new AKYPO® FOAM LM 25 Potassium Laureth-4 Carboxylate was developed with the aim of obtaining a special texture. The product has been designed to achieve a luxurious foam, with a very small bubble size and high foam consistency. Despite being an anionic surfactant, it is gentle on the skin and eyes. When used as a secondary surfactant, it reduces irritation and improves the foam quality of the formulation.



AKYP0® FOAM LM 25
Potassium Laureth-4 Carboxylate

TECHNICAL DATA

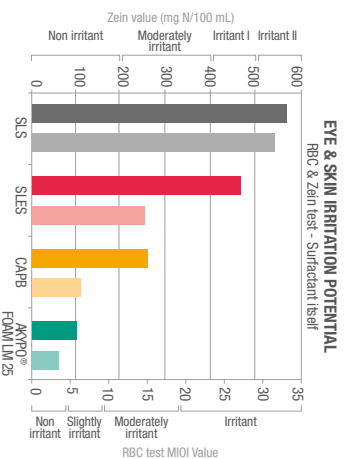
Appearance (20°C)	Clear flowable paste
Active matter (%)	59.0 - 64.0
Water content (%)	35 - 39

MAIN FEATURES

- Ultra-mild surfactant
- High concentration
- Soft & creamy foam texture
- Micro-bubble size
- Clear formulations
- Easy to thicken
- Flowable gel
- Unpreserved

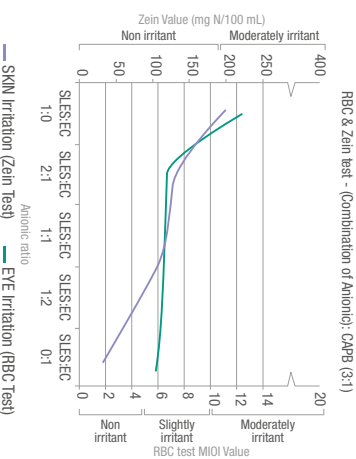
MILDNESS

Despite being an anionic surfactant, AKYPO® FOAM LM 25 is a very gentle product that brings about an improvement in Personal Care cleanser mildness.



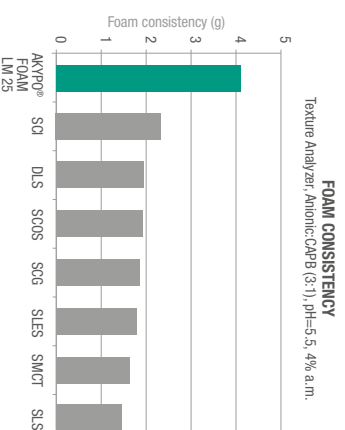
Like the entire AKYPO® range (EC), AKYPO® FOAM LM 25 reduces the irritation level of aggressive surfactants, such as Sodium Laureth Sulfate (SLES).

EYE & SKIN IRRITATION POTENTIAL

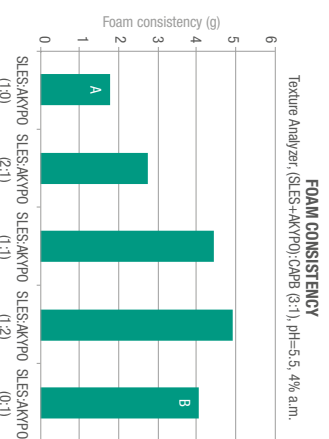


FOAM CONSISTENCY

AKYPO® FOAML M25 provides a significantly higher foam consistency than other anionic surfactants with a special soft and creamy touch.

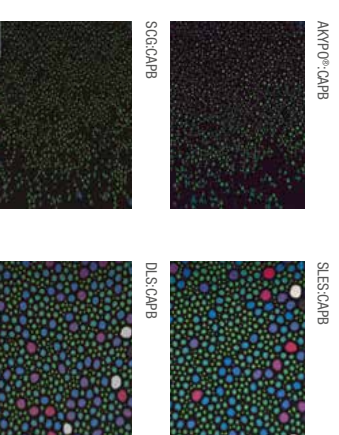


In normal SLES systems, the presence of AKYPO® FOAM LM 25 improves the quality of the foam improving the overall performance.



BUBBLE SIZE

AKYPO® FOAM LM 25 provides a micro-bubble size that increases the active surface, helping improve the effectiveness of the cleansing.



Krüss Foam Analyzer, Anionic:CAPB (3:1), pH=5.5, 1% a.m.



AKYPO® FOAM LM 25

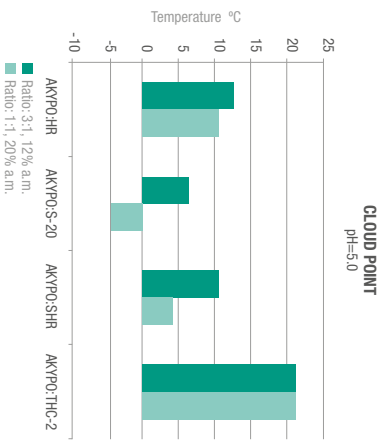
Rich & creamy foam

FOAM VOLUME

AKYPO® FOAM LM 25 provides a good foam volume in a wide range of pHs. Between 5.5 and 9.5 the foam maintains an optimum volume with no differences.

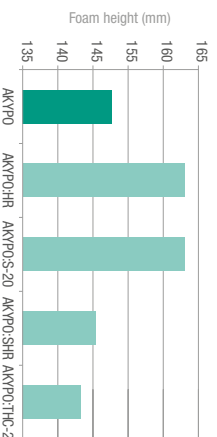
The combination of AKYPO® FOAM LM 25 with amphoteric surfactants, provides a synergism in the foam volume. BETADET® HR and BETADET® S-20 are the best ones.

In situations where the transparency of the formulation can be compromised due to a low pH, the use of amphoteric surfactants, especially BETADET® S-20 and BETADET® SHR, can help to improve the clarity. As an example, the C-303 formulation achieves a cloud point of -2°C thanks to BETADET® S-20.



FOAM VOLUME

Ross-Miles AKYPO® FOAM LM 25:Amphoter, Ratio (3:1), Water hardness: 5°H, T=20°C, pH=5.5, 0.1% a.m.



BETADET® HR: Cocamidopropyl Betaine
BETADET® S-20: Lauryl Hydroxysulfate
BETADET® SHR: Cocamidopropyl Hydroxysulfate
BETADET® THC-2: Disodium Cocamidopropylacetate

Ref: C-303

GENTLE FACIAL WASH %

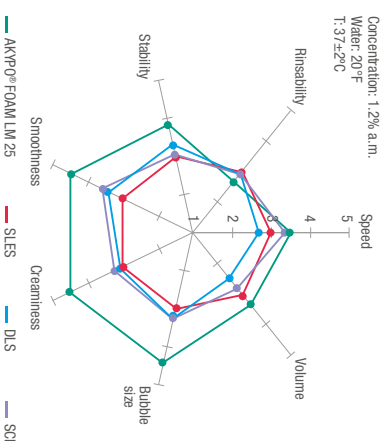
BETADET® S-20 Lauryl Hydroxysulfate	21.1
AKYPO® FOAM LM 25 Potassium Lauryl-4-Carboxylate	14.3
KAOPAN® TW-LS399S PES-160 Sodium Trisulfate	0.5
Glycerine 99%	5.0
Glycine Betaine	1.0
Additives*	q.s.
Deionized Water	Up to 100
Appearance (20°C)	Clear viscous liquid
Viscosity Brookfield 20°C (cP)	Approx. 2,200
Cloud Point (°C)	-2
pH (as it is)	Approx. 5.5

* Additives: pH adjustment, preservatives, fragrance, dyes, etc.

FOAM SENSORY TEST

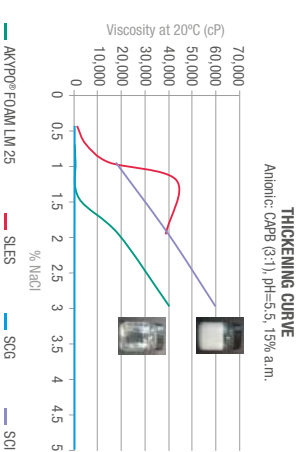
CLEAN CONDITIONS

Caucasian hair
Concentration: 1.2% a.m.
Water 20°F
T: 37±2°C



VISCOSITY

AKYPO® FOAM LM 25 can easily be thickened with salt, avoiding the use of a thickener and without losing its clear appearance.



THICKENING CURVE
Anionic: CAPB (3:1), pH=5.5, 15% a.m.

FOAM STABILITY

Ref: C-290

CREAMY & SOFT SHAMPOO



C-290 (with SLES)

C-290

t=0h

t=1h

In addition to creating consistency and creaminess of the foam, AKYPO® FOAM LM 25 is stable enough to persist for a long time.



Ref. C-290

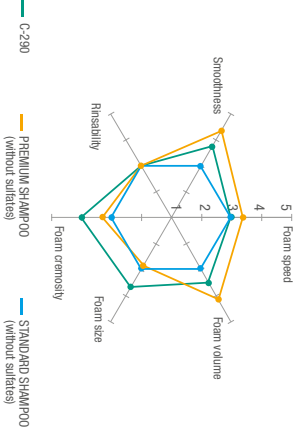
CREAMY & SOFT SHAMPOO

%

AKYPO® FOAM LM 25 Potassium Laureth-4-Carboxylate	28.0
BETADET® HR Cocamidopropyl Betaine	19.2
KA0 SOFCARE® GP-1 PPE-3-Caprylyl Ether	0.6
KAOPAN® TW-1S399S PEG-160 Sorbitan Triesterate	0.5
Polyquaternium-37	5.0
Silicone Quaternium-16	2.4
Additives*	q.s.
Deionized Water	Up to 100
Appearance (20°C)	White viscous gel
Viscosity Brookfield 20°C (cP)	Approx. 17,400
pH (as it is)	Approx. 5.5

Sensory test

CAUCASIAN HAIR WET CONDITIONS



Ref. C-297

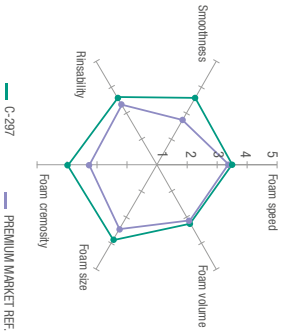
RICH FOAM SHAMPOO

%

AKYPO® FOAM LM 25 Potassium Laureth-4-Carboxylate	24.4
BETADET® SHR Cocamidopropyl Hydroxysulfate	11.4
KA0 SOFCARE® GP-1 PPE-3-Caprylyl Ether	1.5
Polyquaternium-7	1.0
PEG-7 Dimethicone	1.0
Polyquaternium-10	0.3
Additives*	q.s.
Deionized Water	Up to 100
Appearance (20°C)	Clear viscous liquid
Viscosity Brookfield 20°C (cP)	Approx. 10,000
pH (as it is)	Approx. 6.0

Sensory test

CAUCASIAN HAIR WET CONDITIONS



Ref. C-296

MILD & SMOOTH BODY CLEANSER

%

AKYPO® FOAM LM 25 Potassium Laureth-4-Carboxylate	21.1
BETADET® SHR Cocamidopropyl Hydroxysulfate	10.2
LEVENOL® H&B Glycerin/2-Cocaine	0.8
EXCEPARL® LM-LC Lauryl Lactide	0.5
Glycerin	3.0
Polyquaternium-7	2.0
NaCl	(approx. 0.4)
Additives*	q.s.
Deionized Water	Up to 100
Appearance (20°C)	Clear viscous liquid
Viscosity Brookfield 20°C (cP)	Approx. 12,000
pH (as it is)	Approx. 6.0

Ref. C-300

ULTRA-MILD SHAVING CREAM

%

AKYPO® FOAM LM 25 Potassium Laureth-4-Carboxylate	40.5
LEVENOL® H&B Glycerin/2-Cocaine	5.0
DANDY® BF-22 Glycol Distearate, Laureth-4, Cocamidopropyl Betaine	4.0
Glycerin	3.0
Polyquaternium-7	3.0
Coconut Oil	2.0
Additives*	q.s.
Deionized Water	Up to 100
Appearance (20°C)	Pearled viscous paste
pH (as it is)	Approx. 7.0

*Additives: pH adjustment, preservatives, fragrances, dyes, etc.

Ref. C-310

SHOWER CREAM

%

AKYPO® FOAM LM 25 Potassium Laureth-4-Carboxylate	20.8
BETADET® HR Cocamidopropyl Betaine	10.0
EMANON® EYE-E Glycerin/7-Caprylate/Caprate	3.0
AMIDET® N PEG-4-Rapeseedamide	1.5
KAOPAN® TW-1S399S PEG-160 Sorbitan Triesterate	1.5
Sunflower Oil	10.0
Glycerin	3.0
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	1.0
Additives*	q.s.
Deionized Water	Up to 100
Appearance (20°C)	White viscous liquid
Viscosity Brookfield 20°C (cP)	Approx. 76,000
pH (as it is)	Approx. 6.0



KAO CHEMICALS EUROPE

www.kaochemicals-eu.com



Enriching lives,
in harmony with nature.

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