

ROKAmina Series

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Local. Global. Integrated.

Operating in 18 countries, in 41 different locations, PCC Group currently employs more than 3 100 people.



About Us

PCC Exol SA is a major player in the European surfactants market. In the eastern and central-eastern part of the continent, it is the undisputed leader in its industry. Most of the production facilities and the company's headquarters are located in Brzeg Dolny, Poland. Here we develop, test and manufacture a wide range of anionic, non-ionic and amphoteric surfactants and speciality industrial formulations.

New products are continuously added to the portfolio in response to market trends and individual customer requirements. The surfactants produced at the plants have a very wide range of industrial applications. They are used as wetting agents, emulsifiers, auxiliaries in paper, metallurgy and many other industries, as well as in

household chemicals, personal care products and textiles.

Sustainable development is an important element of PCC EXOL's business approach. The company develops its management practices and processes to address environmental, social and ethical challenges. The scope of these activities is determined by the company's strategic priorities, operational capabilities and available, verifiable supporting documentation. Among other areas, PCC EXOL undertakes initiatives aimed at supporting the circular economy, improving energy and resource efficiency, enhancing safety performance, and promoting sustainability-related practices within selected elements of its value chain through cooperation with suppliers and customers.

PCC ROKITA SA PCC PCG OXYALKYLATES IRPC	PCC ROKITA SA	PCC ROKITA SA	PCC EXOL SA PCC CHEMAX INC PCC PCG OXYALKYLATES	PCC SYNTEZA
Polyols 	Chlorine 	Phosphorus 	Surfactants 	Alkylphenols 
• Polyether polyols • Polyester polyols • Prepolymers • Polyurethane Systems	• Chlorine • MCAA • Other Chlorine Downstream Product	• Phosphorus derivatives • Naphthalene derivatives • Polycarboxyethers (PCE)	• Anionic surfactants • Cationic surfactants • Nonionic surfactants • Amphoteric surfactants (betaines) • Chemical formulation	• Nonylphenol • Dodecylphenol • Tristyrylphenol
PCC CONSUMER PRODUCTS SA	PCC ROKITA SA	PCC INTERMODAL SA	PCC BAKKISILICON HF.	PCC SE
Consumer Products 	Energy 	Logistics 	Silicon 	Holding & Projects 
• Household & industrial Cleaners, Detergents and Personal Care Products	• Energy Production	• Intermodal transport • Road Haulage • Rail Transport	• Microsilica • Silicon Metal	• Portfolio Management • Project Development

ROKAmina Series

Betaines belong to a class of amphoteric surface active agents. Those surfactants display excellent skin mildness profile when combined with anionic surfactants, very good foam characteristics and viscosity building properties. A combination of favorable

formulation parameters like abundant foam formation, compatibility with a wide range of surfactant systems and an increased safety made betaines one of the most widely used surfactants in all wash-off formulations.

Functions in formulations

- Co-surfactant
- Foam booster
- Viscosity modifier

Added value in formulating

- Reduces irritancy of surfactants
- Good skin compatibility in combination with anionic surfactants
- Soft and smooth feeling of the skin
- Richer and more luxurious foam
- High performance viscosity builder in ether sulfate based formulations

Used in

- Personal Care
- Detergents
- Auto Care
- Coatings and Inks
- Mining and Drilling
- Textiles and Leathers
- Building and Construction

Benefits

Mild surfactant
(cleansing effect)



Foam boosting



Hair and skin
conditioning effects



Exceptionally effective
viscosity increasing agent
(highly responsive to salt)



The products meet the
biodegradability criteria
in accordance with
OECD methodology*



Compatible with anionic
cationic amphoteric and
nonionic surfactants



* Biodegradability data are based on either literature sources or test results



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Different types of betaines in PCC Group portfolio

Product name	INCI	Active substances [%]	Physical form	Ecocert COSMOS certified*	RSPO Mass Balance certified	Natural Origin Index**
ROKAmina K30	Cocamidopropyl Betaine	29 – 32	liquid	•	•	0.87
ROKAmina K30K	Cocamidopropyl Betaine	29 – 32	liquid		•	0.89
ROKAmina K40	Cocamidopropyl Betaine	37.0 – 42.0	liquid	•	•	0.85
ROKAmina K40HC	Cocamidopropyl Betaine	37.0 – 42.0	liquid	•	•	0.84
ROKAmina K30B	Coco-betaine	29.0 – 33.0	liquid	•	•	0.91
ROKAmina L30B	Lauryl Betaine	29.0 – 31.0	liquid	•	•	0.91

* Applies to products certified under the RSPO Mass Balance.

** Data based on ISO 16128 methodology.

Betaines exhibit interesting properties and can be described as:

- foam stabilizers and enhancers
- viscosity modifiers in the presence of anionic surfactants and electrolytes
- cleansing agents for skin and hair
- conditioning agents for skin and hair

Futhermore, betaines have antistatic properties and they are capable of reducing irritating effect of anionic surfactants on the skin.

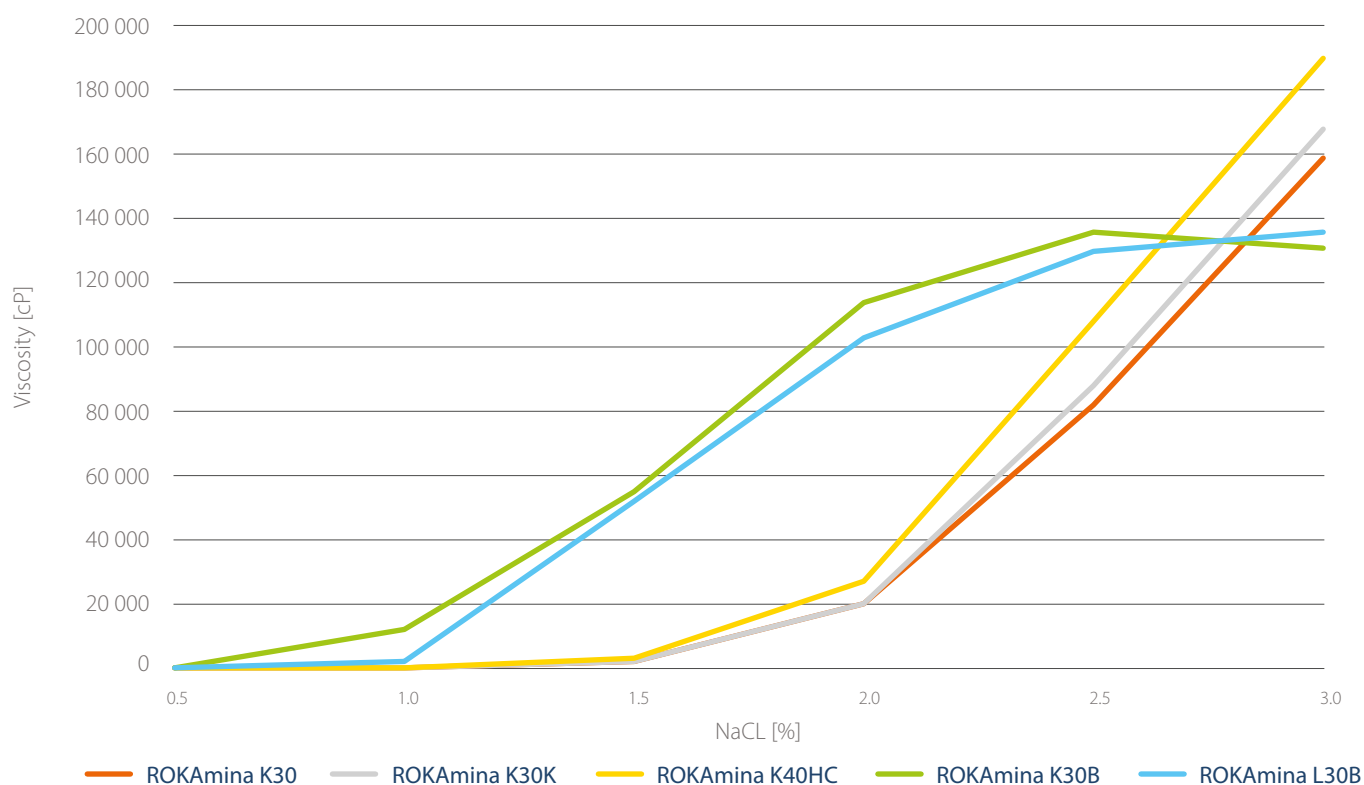
What is more, betaines can act as hydrotropes (ability to improve formulation clarity).

Thickening properties

Addition of betaines to a standard anionic surfactant system not only optimizes the viscosity profile and a response to salt but also improves cleansing power and mildness of the final formulation. A synergistic effect of an anionic surfactant-betaines system gives

the formulator a powerful tool in creating added value formulations. Viscosity building properties of a surfactant system comprising of Sodium Laureth Sulfate and different Betaines types was shown on the graph below as a function of salt concentration.

INCI	Product	Active substances [%]
Sodium Laureth Sulfate	SULFOROKAnol L270/1	9
Cocamidopropyl Betaine/Coco-betaine/Lauryl Betaine	ROKAmina K30, K30K, K40, K40HC, K30B, L30B	3
Sodium Chloride	–	1-3
Aqua	–	up to 100

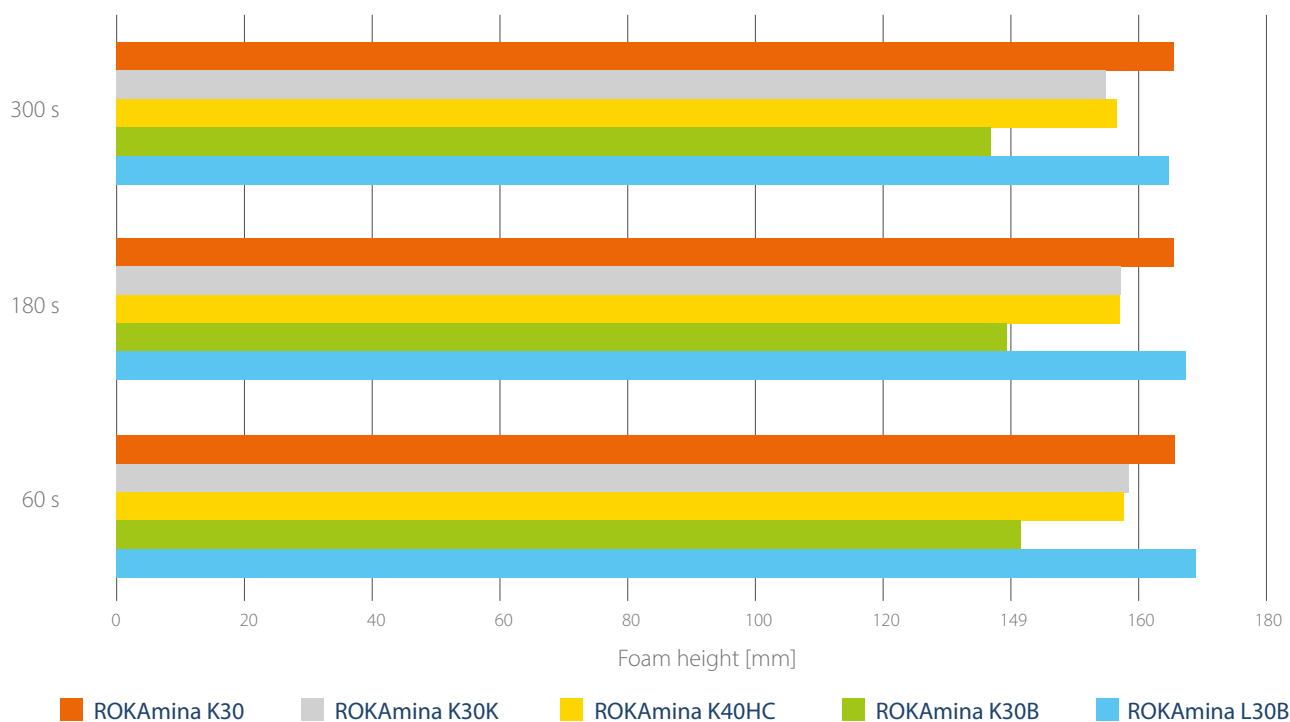


Foaming properties

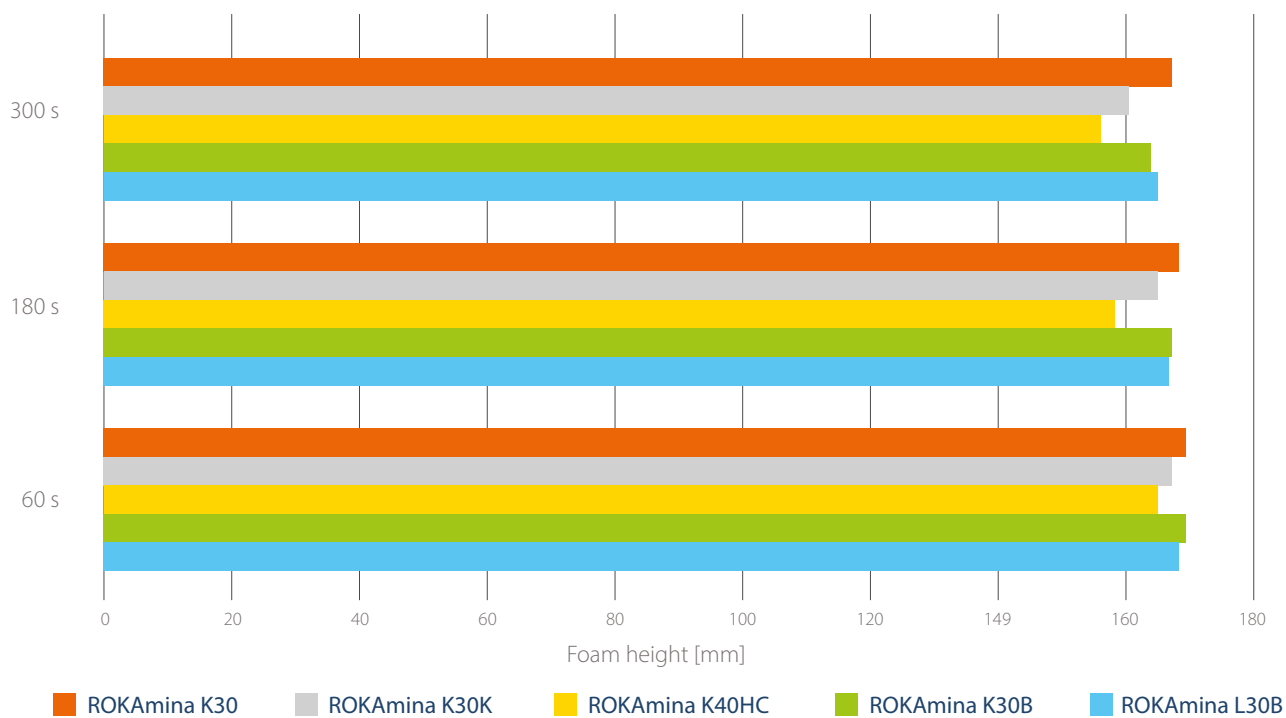
It is possible to formulate products that are characterized by outstanding foam using blends of anionic and amphoteric surfactants. It also implies that the surfactant system has different foam properties than the anionic one alone. This explains why betaines are so commonly used in personal care formulations. They improve foam – an attribute that is very important for consumers.

Determination of the foaming capability was performed on Ross Miles Foam Analyzer according to ASTM D1173 solutions with a concentration of 1.0 g/L in both hard (17°dH – calcium hardness of 3 Ca²⁺ mmol/L) and demineralized water at a temperature of 25°C.

Foaming properties in demineralized water



Foaming properties in hard water



Surface tension

Surface tension has been determined according to PN-EN 14370:2004, with the use of the Wilhelmy plate method, at the temperature of 25°C, at the concentration of 0.1%. Pure water has a relatively high surface tension at a room temperature (~72.4 mN/m) and therefore it has poor cleansing properties. In the cleaning process, the surface tension must

be reduced so water can spread and wet other surfaces. An addition of a surfactant decreases the surface tension and consequently increases solubilization. Surfactants are said to make water “wetter”. The lower the surface tension the better the wettability, hence the ability to dissolve and remove dirt residues.

Product Name	INCI	Surface tension [mN/m] in demineralized water
ROKAmina K30	Cocamidopropyl Betaine	30
ROKAmina K30K	Cocamidopropyl Betaine	30
ROKAmina K40	Cocamidopropyl Betaine	29
ROKAmina K40HC	Cocamidopropyl Betaine	29
ROKAmina K30B	Coco-betaine	29
ROKAmina L30B	Lauryl Betaine	29



Example formulations

Refreshing body mousse [RD-17]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Sodium Cocoyl Isethionate	–	21.00	Surfactant
A	Decyl Glucoside	–	1.20	Surfactant
A	PEG-4 Rapeseedamide	ROKAmid MRZ4	3.00	Surfactant
A	Coco-betaine	ROKAmina K30B	1.00	Surfactant
B	Glycerin	–	11.00	Active
B	Sorbitol	–	6.00	Active
B	Betaine	–	0.40	Active
C	Parfum	–	0.30	Fragrance
C	CI 15510	–	0.001	Dye
C	CI 45100	–	0.001	Dye
C	Mentha Piperita Leaf Extract	–	0.40	Active
D	Sodium Benzoate	–	0.50	Preservative
D	Potassium Sorbate	–	0.30	Preservative
E	Lactic Acid	–	0.30	pH modifier
A	Aqua	–	54.60	Solvent

Appearance	Visual method	Red paste
pH	–	5.0 – 5.5
Stability	1 month in 5°C, 20°C, 40°C	Confirmed

Procedure:

1. Add ingredients from phase A to warm water (40 – 45°C). Mix until homogenous solution is obtained.
2. Cool the batch down to at least 35°C.
3. Add phase B during mixing. Mix until homogenous solution is obtained.
4. Add phase C-E ingredients while mixing – mix until uniform.
5. Adjust pH by Lactic Acid to 5.0-5.5.

3 in 1 shower gel [RD-03]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Coco-betaine	ROKAmina K30B	9.00	Surfactant
A	Magnesium Laureth Sulfate	–	7.00	Surfactant
A	PEG-6 Caprylic/Capric Glycerides	ROKAcet CC6	2.00	Surfactant
B	PEG-120 Methyl Glucose Dioleate	–	1.10	Thickening agent
B	Allantoin	–	0.60	Active
B	Betaine	–	0.50	Active
B	Polysorbate 20	ROKwinol 20	0.50	Solubilizer
C	Parfum	–	0.30	Fragrance
D	Sodium Benzoate	–	0.40	Preservative
E	Lactic Acid	–	0.40	pH modifier
E	CI 19140	–	0.01	Dye
E	CI 42090	–	0.01	Dye
A	Aqua	–	78.20	Solvent

Appearance	Visual method	Clear green gel
pH	–	4.0 – 5.0
Viscosity [cP]	Brookfield LV, spindle 34, speed 2.5 RPM, T: 25°C	1000 – 3000
Stability	1 month in 5°C, 20°C, 40°C	Confirmed

Procedure:

1. Add ingredients from phase A to warm water (40 – 45°C). Mix until homogenous solution is obtained.
2. Cool the batch down to at least 35°C.
3. Add phase B-E during mixing. Mix until homogenous solution is obtained.
4. Adjust pH by Lactic Acid to 4.5-4.8.
5. Adjust Sodium Chloride (not in one go) to adjust the viscosity. After addition of each portion mix well.

Adhesive toilet gel

Chemical name	Brand name	Concentration [%]	Function
Ceteareth-25	ROKAnol T25	35.0	Thickener
Cocoamidopropyl Betaine	ROKAmina K30	16.0	Foaming agent
C9-11 Pareth-12	ROKAnol NL12W/80	4.0	Cleaning and foaming agent
Glycerin	–	5.0	Anti-drying agent
Water and additives	–	up to 100	Solvent and additives

Appearance Gel

pH at 25°C 5–6

Procedure:

1. Put ROKAnol T25 in a reactor, add water heated to 80°C.
2. Mix until ROKAnol T25 is completely dissolved.
3. Cool to 50°C and add ROKAmina K30, then mix.
4. Add ROKAnol NL12W/80, Glycerin and other additives
5. Mix until a clear solution is obtained.
6. Measure the required parameters



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Snow foam version 2

Ingredient	Concentration [%]	Function
ROSULfan D	17.0	Cleaning agent, foaming agent
ROKAmina K30K	7.0	Foam stabiliser
SULFOROKAnol L227/1	7.0	Foaming agent
EXOlat C40	2.0	Sequestrant
2-(2-butoxyethoxy)ethanol (BDG)	2.0	Solvent, foam enhancer
Water	up to 100%	Solvent

The product should be used at a dilution of 1:5 to 1:20, depending on the severity of staining.

Appearance	Clear liquid
pH at 25°C	6-7
Viscosity at 20°C, cP	<10
Solidification point, °C	< 0

Procedure:

- 1. Add SULFOROKAnol L227/1 to a measured quantity of water and mix thoroughly.
- 2. Add ROSULfan D, ROKAmina K30K and EXOlat C40 (in that order), mixing each time.
- 3. Add BDG and mix until a homogeneous liquid is obtained.



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Textile upholstery cleaner version 3



The product meets the criteria for ingredients in formulations certified by the Nordic Swan.

Ingredient	Concentration [%]	Function
SULFOROKAnol L227/1	10.0	Cleaning agent, foaming agen
ROKAnol NL8/NL9	5.0	Cleaning agent
ROKAmina K40HC	3.0	Foam stabiliser
Water	up to 100%	Solvent

Appearance

Clear liquid

pH at 25°C

5-7

Viscosity at 20°C, cP

<10

Solidification point, °C

1

Procedure:

1. Weigh out an appropriate quantity of water.
2. Then add the following products, in the specified order: SULFOROKAnol L227/1, ROKAnol NL8/NL9 and ROKAmina K40HC.
3. Mix each time until uniform.



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.





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September 2026

The information in the catalogue is believed to be accurate and compiled to the best of our knowledge; however, it should be considered as introductory only. Detailed information about our products is available in TDS and MSDS.

The suggestions for product applications are based on our best knowledge.

The responsibility for the use of products in conformity or otherwise with the suggested application, and for determining product suitability for the user's own purposes rests with the user.

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