

ROKAnol T and EXOcare TE series

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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.

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Rokanol T and EXOcare TE series

Chemical description

ROKAnol T belongs to the group of nonionic surfactants of the ethoxylated fatty alcohol type. ROKAnol T series are based on C16-18 fatty alcohols. They act as emulsifiers and improve the consistency of the preparation.

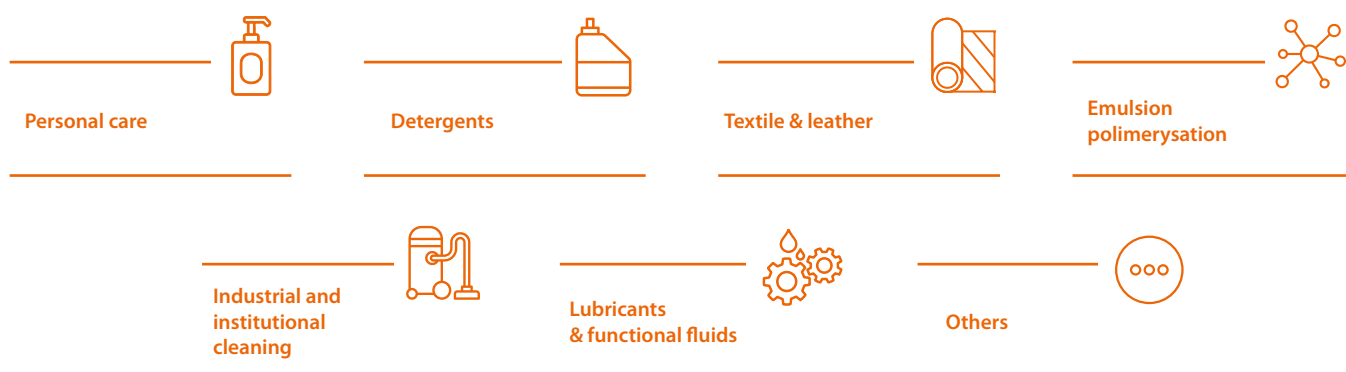
CH₃ (CH₂)_n-O(CH₂CH₂O)_{n'} where **n – 15 – 17**

n' – 3, 6, 10, 12, 15, 18, 20, 25, 50, 80

EXOcare TE series is a mixture with cetearyl alcohol.

ROKAnol T and EXOcare TE series products are available in various forms (wax, pastilles, flakes, powder) and in a RSPO Mass Balance certified version.

Application



Basic physical and chemical properties

Product name		EXOcare TEW	EXOcare TE20	EXOcare TE25
Chemical name		C16-18 alcohols, ethoxylated + ceto-stearyl alcohol	C16-18 alcohols, ethoxylated + ceto-stearyl alcohol	C16-18 alcohols, ethoxylated + ceto-stearyl alcohol
INCI name		Cetearyl Alcohol (and) Ceteareth-18	Cetearyl Alcohol (and) Ceteareth-20	Cetearyl Alcohol (and) Ceteareth-25
CAS number		–	–	–
Function		Emulsifying, stabilizing agent	Emulsifying agent	Emulsifying, wetting agent

Technical requirements	Appearance at temperature (20÷25)°C	white to cream solid wax	white to cream solid wax	white to cream solid
	Water, %(m/m)	max. 1	max. 1	max. 1
	Hydroxyl value, mg KOH/g	160 ÷ 190	166 ÷ 178	170 ÷ 190
	Solidification point, °C	48 ÷ 52	–	47 ÷ 55
	Acid value, mg KOH/g	max. 0.9	–	max. 1

General data	Dropping point, °C	50 ÷ 54	–	–
	Melting poin	–	47 ÷ 55	47 ÷ 55
	Solubility in water	insoluble (creates dispersions)	insoluble (creates dispersions)	insoluble (creates dispersions)
	Odour	characteristic	characteristic	characteristic
	Hydrophilic-lipophilic balance (HLB)	approx. 8	approx. 8	approx. 8

Basic physical and chemical properties

Product name		ROKAnol T3	ROKAnol T6	ROKAnol T10	ROKAnol T12
Chemical name		Alcohols, C16-C18, ethoxylated	Alcohols, C16-C18, ethoxylated	Alcohols, C16-18, ethoxylated	Alcohols, C16-18, ethoxylated
INCI name		Ceteareth-3	Ceteareth-6	Ceteareth-10	Ceteareth-12
CAS number		68439-49-6	68439-49-6	68439-49-6	68439-49-6
Function		Emulsifying agent	Emulsifying agent	Dispersing and emulsifying agent	Emulsifying, wetting and dispersing agent
Technical requirements	Appearance at temperature (20÷25)°C	wax	wax	wax	wax
	Colour (Hazen units) at (40 ÷ 45)°C	max. 60	max. 100	max. 300	max. 150
	pH of 1% solution	5.0 ÷ 7.0	6.0 ÷ 8.0	5.5 ÷ 8.5	6.0 ÷ 8.0
	Hydroxyl value, mg KOH/g	130 ÷ 141	105 ÷ 115	85 ÷ 95	–
	Cloud point (butyldiglycol/ water solution), °C	60 ÷ 65	–	–	80 ÷ 85
	Water, %(m/m)	max. 0.5	max. 0.5	max. 0.5	max. 0.5
General data	Molecular weight	approx. 560	approx. 530	approx. 720	approx. 800
	Solubility in water at room temperature	creates cloudy solutions	low, creates emulsion	good (in hot water), creates turbid solutions	good (in hot water)
	Odour	weak, characteristic	weak, characteristic	weak, characteristic	weak, characteristic
	Solidification point, °C	approx. 30	approx. 30	approx. 30	approx. 36
	Density at 40°C, g/mL	approx. 0.99 (at 40°C)	approx. 0.99 (at 40°C)	approx. 0.97 (at 30°C)	approx. 1.01 (at 30°C)
	Other solvents	–	low aliphatic alcohols	–	–
	Hydrophilic-lipophilic balance (HLB)	approx. 13.5	–	–	13.50

ROKAnol T15	ROKAnol T18	ROKAnol T20	ROKAnol T25	ROKAnol T50	ROKAnol T80
Alcohols, C16-18, ethoxylated	Alcohols, C16-18, ethoxylated	Alcohols, C16-18, ethoxylated	Alcohols, C16-18, ethoxylated	Alcohols, C16-18, ethoxylated	Alcohols, C16-18, ethoxylated
Cetareth-15	Cetareth-18	Cetareth-20	Cetareth-25	Cetareth-50	Cetareth-80
68439-49-6	68439-49-6	68439-49-6	68439-49-6	68439-49-6	68439-49-6
Emulsifying, wetting and dispersing agent	Dispersing and emulsifying agent	Emulsifying and wetting agent	Emulsifying, wetting, thickening and solubilizing agents	Emulsifying, wetting, thickening and solubilizing agents	Emulsifying, wetting, thickening solubilizing and stabilizing agents
wax	wax	wax	wax	wax	wax
max. 150 (at 50°C)	–	–	–	–	–
5.0 ÷ 7.5	5.5 ÷ 8.5	5.5 ÷ 8.5	5.0 ÷ 8.0	6.0 ÷ 7.5 (5% solution)	5.0 ÷ 7.0 (5% solution)
approx. 63	–	48 ÷ 55	36 ÷ 45	25 ÷ 30	14 ÷ 16
67 ÷ 72 (NaCl 100g/L)	74 ÷ 77 (NaCl 100g/L)	88 ÷ 94 (NaCl solution 50 g/l)	–	–	–
max. 0.5	max. 1	max. 1	max. 1	max. 1	max. 1
approx. 900	approx. 1100	approx. 1100	approx. 1360	average 2550	average 3740
good (in hot water)	good (in hot water)	good (in hot water)	good (in hot water)	good (in hot water)	good (in hot water)
weak, characteristic	weak, characteristic	weak, characteristic	weak, characteristic	weak, characteristic	weak, characteristic
approx. 40	approx. 40	approx. 40	approx. 43	approx. 49	approx. 52
approx. 0.95 (at 70°C)	approx. 0.97	–	approx. 1.020 (at 60°C)	approx. 1.03 (at 60°C)	approx. 1.04 (at 60°C)
–	low aliphatic alcohols, benzene	–	–	–	–
–	approx. 16.3	approx. 15.3	approx. 16	approx. 17.7	approx. 18.5

Mild body wash emulsion [RD-11]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Aqua	–	to 100	Solvent
A	Xanthan Gum	–	0.50	Rheology modifier
B	Ceteareth-25	ROKAnol T25	2.00	Emulsifier
B	Cetearyl Alcohol	EXOalc 1618 flakes	3.00	Emulsion stabilizer
C	MIPA Laureth Sulfate and Propylene Glycol	SULFOROKAnol L290/1M	2.00	Emollient
E	Sodium Lauroyl Sarcosinate	ROKAtend LS	5.00	Surfactant
A	Glycerin	–	2.00	Solvent
C	Helianthus annuus Seed Oil	–	10.00	Emolient
A	Phenoxyethanol, Ethylhexylglycerin	–	q.s	Preservative
B	Stearic Acid	–	1.00	Rheology modifier
B	Lactic Acid	–	0.15	pH adjuster
D	Parfum	–	0.10	Fragrance

Appearance	Visual method	White emulsion
pH	–	5.0 – 6.0
Stability	1 month at 5°C, RT, 40°C	Confirmed

Procedure:

1. In main vessel combine ingredients from the phase A.
2. Add Xanthan gum to Glycerin – mix until homogenous solution is obtained.
3. Add the phase B components to phase A while mixing. Mix until uniform.
4. In a separate vessel combine ingredients from the phase C and add to main vessel.
5. Heat to 75 – 80°C.
6. At this temp of 75 – 80°C homogenize.
7. Cool the batch down to 40°C. Add phase D ingredients while mixing. Homogenize.
8. Cool the batch down to 25°C. Add phase E ingredient while mixing. Homogenize.

BB cream [KD-77]

Phase	INCI name	Brand name	Concentration [%]	Function
C	Polysorbate 60	ROKwinol 60	2.00	Emulsifier
C	Cetearyl Alcohol, Ceteareth-20	EXOcare TE20	2.50	Emulsifier
C	Ceteareth-12	ROKAnol T12	1.00	Emulsifier
C	Paraffinum Liquidum	–	5.00	Emollient
C	Butyl Methoxydibenzoylmethane	–	3.00	UV filter
C	Octocrylene	–	3.00	UV filter
C	PPG-15 Stearyl Ether	ROKAnol SP15L	5.00	Emollient
A	Aqua	–	68.316	Solvent
A	Glycerin	–	2.00	Solvent
A	Magnesium Aluminum Silicate	–	1.00	Rheology modifier
B	CI 77492, Phytic Acid, Sodium Hydroxide	–	0.11	Colorant
B	CI 77499, Phytic Acid, Sodium Hydroxide	–	0.031	Colorant
B	CI 77891, Phytic Acid, S odium Hydroxide	–	1.75	Colorant
B	CI 77491, Phytic Acid, Sodium Hydroxide	–	0.043	Colorant
D	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	–	0.15	Rheology modifier
D	Dimethicone	–	2.00	Emollient
D	Cyclopentasiloxane	–	2.00	Emollient
E	Phenoxyethanol, Ethylhexylglycerin	–	1.00	Preservative
F	Sodium Hydroxide	–	0.10	pH adjuster

Appearance	Visual method	Beige emulsion
pH	–	5.0 – 7.0
Stability	1 month at 5°C, 20°C, 40°C	Confirmed

Procedure:

1. In a main vessel combine ingredients from phase A. Homogenize with 2000 – 3000 RPM, 5 min.
2. Add phase B ingredients. Homogenize with 2000 – 3000 RPM, 5 min.
3. In a separate vessel combine ingredients from phase C, D.
4. Heat phase A/B and C to 75 – 80°C.
5. Add C into A/B while mixing, keep A/B/C at 75 – 80°C. Homogenize with 2000 – 3000 RPM, 120 sec.
6. Cool the batch down to 50°C while mixing. Add phase D ingredients while mixing. Homogenize with 2500 – 3500 RPM, 90 sec.
7. Cool the batch down to 30°C while mixing.
8. Add phase E and F ingredients while mixing. Homogenize with 2500 – 3500 RPM, 90 sec.

Eye cream [KD-79]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Polysorbate 60	ROKwinol 60	2.00	Emulsifier
A	Cetearyl Alcohol, Ceteareth-20	EXOcare TE20	3.00	Emulsifier
A	Paraffinum Liquidum	–	6.00	Emollient
A	Palmitic Acid	–	1.00	Emollient
A	Cocos Nucifera (Coconut) Oil, Hydrogenated Soy Polyglycerides	–	3.00	Emollient
A	PPG-15 Stearyl Ether	ROKAnol SP15L	5.00	Emollient
B	Aqua	–	72.33	Solvent
B	Allantoin	–	0.10	Active
B	Betaine	–	4.00	Active
B	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	–	0.07	Rheology modifier
C	Carbomer	–	0.05	Rheology modifier
C	Dimethicone	–	2.00	Emollient
D	Sodium Hydroxide	–	0.05	pH adjuster
E	Phenoxyethanol, Ethylhexylglycerin	–	0.80	Preservative
F	Sodium Polyacrylate, Ethylhexyl Stearate, Trideceth-6	–	0.60	Rheology modifier

Appearance	Visual method	White emulsion
pH	–	5.0 – 7.0
Stability	1 month at 5°C, 20°C, 40°C	Confirmed

Procedure:

1. In separate vessels combine ingredients from phase A and B. NOTE! Add slowly Acrylates/C10-30 Alkyl Acrylate Crosspolymer while mixing – mix until uniform.
2. Heat up to 75 – 80°C phase A and B. Combine ingredients from phase C – mix until uniform.
3. Add the phase B to phase A while mixing. Mix until uniform. Homogenize 1500 – 2000 RPM, 90-120 s.
4. Cool the batch down to 60°C while mixing. Add phase C ingredients while mixing. Homogenize 2000 – 2500 RPM, 90-120 s.
5. Add phase D and E ingredients while mixing. Homogenize 2500 – 3000 RPM, 90-120 s. A 30% Sodium Hydroxide solution was used.
6. Add phase E and F ingredients while mixing. Homogenize 3000 – 4000 RPM, 90-120 s. Cool the batch down to 25 – 30°C while mixing.

Body milk [KD-78]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Ceteareth-12	ROKAnol T12	1.00	Emulsifier
A	Ceteareth-25	ROKAnol T25	1.00	Emulsifier
A	Cetearyl Alcohol	EXOalc 1618 flakes	2.00	Emulsion stabilizer
A	Paraffinum Liquidum	–	5.00	Emollient
A	Helianthus Annuus Seed Oil	–	0.50	Emollient
A	PPG-15 Stearyl Ether	ROKAnol SP15L	4.00	Emollient
B	Aqua	–	83.85	Solvent
B	Betaine	–	0.50	Active
C	Glycerin	–	1.00	Solvent
C	Xanthan Gum	–	0.05	Rheology modifier
D	Carbomer	–	0.25	Rheology modifier
E	Phenoxyethanol, Sodium Hydroxide	–	0.05	pH adjuster
F	Phenoxyethanol, Ethylhexylglycerin	–	0.80	Preservative

Appearance	Visual method	White emulsion
pH	–	5.0 – 7.0
Stability	1 month at 5°C, 20°C, 40°C	Confirmed

Procedure:

1. In separate vessels combine ingredients from phase A, B and C.
2. Add slowly phase D ingredients to phase B while mixing. Mix until uniform.
3. Add slowly phase C ingredients to phase B while mixing. Homogenize with 2000 – 3000 RPM, 90 sec.
4. Heat phase A and B to 75 – 80°C.
5. Add A into B while mixing, keep A/B at 75-80°C. Homogenize with 2000 – 3000 RPM, 120 sec.
6. Cool the batch down to 50°C while mixing. Add phase E ingredients while mixing. Homogenize with 2500 – 3500 RPM, 90 sec.
7. Cool the batch down to 25°C. Add phase F ingredients while mixing. Homogenize with 2500 – 3500 RPM, 90 sec.

Body lotion [KD-82]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Cetearyl Alcohol	EXOalc 1618 flake	2.50	Emulsion stabilizer
A	Ceteareth-12	ROKAnol T12	1.00	Emulsifier
A	Petrolatum	–	2.00	Emollient
A	Helianthus Annuus Seed Oil	–	1.00	Emollient
A	PPG-15 Stearyl Ether	ROKAnol SP15L	6.00	Emollient
A	Glyceryl Stearate, PEG-100 Stearate	–	1.50	Emulsifier
B	Aqua	–	78.35	Solvent
B	PEG-7/PPG-2 Propylheptyl Ether	ROKAnol GA7LAW	1.00	Emollient
B	Betaine	–	2.00	Active
B	Glycerin	–	2.00	Moisturising agent
C	Carbomer	–	0.30	Rheology modifier
C	PPG-15 Stearyl Ether	ROKAnol SP15L	1.00	Emollient
D	Phenoxyethanol, Ethylhexylglycerin	–	1.00	Preservative
E	Sodium Hydroxide	–	0.05	pH adjuster
E	Parfum	–	0.30	Fragrance

Appearance	Visual method	White emulsion
pH	–	5.0 – 7.0
Stability	1 month at 5°C, RT, 40°C	Confirmed

Procedure:

1. In a separate vessel combine ingredients from phase A, B and C. Heat the phase A and B to 75 – 80°C.
2. Add A into B, stir well with hand stirring, keep A/B at 75 – 80°C. Homogenize with 2000 – 3000 RPM, 120 sec.
3. Cool the batch down to 50°C while mixing. Add ingredients from phase C and D while mixing. Homogenise with 2500 – 3500 RPM, 120 sec.
4. Cool the batch down to 25°C. Add phase E while mixing. Homogenize with 2500 – 3500 RPM, 120 sec.

Body lotion [RD-07]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Ceteareth-25	ROKAnol T25	2.00	Emulsifier
A	Cetearyl Alcohol	EXOalc 1618 flakes	2.50	Emulsifier
A	PPG-15 Stearyl Ether	ROKAnol SP15L MB	2.00	Emollient
A	C12-15 Alkyl Benzoate	EXOsoft AB25	4.00	Emollient
A	Glycereth-26	–	1.00	Emollient
A	Glyceryl Stearate, PEG-100 Stearate	–	3.00	Emulsifier
B	Aqua	–	to 100.00	Solvent
C	Sodium Benzoate, Potassium sorbate	–	q.s.	Preservative
D	Parfum	–	0.50	Fragrance

Appearance	Visual method	White emulsion
pH	–	5.0 – 7.0
Stability	1 month in 5°C, 20°C, 40°C	Confirmed

Procedure:

1. In separate vessel combine ingredients from phase A, B, C, D.
2. Heat up to 75 – 80°C phase A and B.
3. Add phase A components to phase B/C while mixing. Mix until uniform. Homogenize 1500 – 2000 RPM, 90 – 120 s.
4. Cool the batch down to 30°C while mixing. Add phase D ingredients while mixing. Homogenize 2000 – 2500 RPM, 90 – 120 s.
5. Cool the batch down to 20 – 25°C while mixing.

Hand cream [KD-83]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Cetearyl Alcohol	EXOalc 1618	4.00	Emulsion stabilizer
A	Glyceryl Stearate, PEG-100 Stearate	–	2.00	Emulsifier
A	Ceteareth-12	ROKAnol T12	1.50	Emollient
A	Helianthus Annuus Seed Oil	–	1.00	Emollient
A	Petrolatum	–	0.50	Emollient
A	Stearic Acid	–	1.50	Rheology modifier
A	PPG-15 Stearyl Ether	ROKAnol SP15L	8.00	Emollient
B	Aqua	–	58.00	Solvent
B	Betaine	–	2.00	Active
B	Glycerin	–	20.00	Solvent
C	Phenoxyethanol, Ethylhexylglycerin	–	1.00	Preservative
D	Parfum	–	0.50	Fragrance

Appearance	Visual method	White emulsion
pH	–	5.0 – 7.0
Stability	1 month at 5°C, RT, 40°C	Confirmed

Procedure:

1. In a separate vessel combine ingredients from phase A and B.
2. Heat phase A and B to 75 – 80°C.
3. Add A into B while mixing, keep A/B at 75 – 80°C. Homogenise with 2000 – 3000 RPM, 120 sec.
4. Cool the batch down to 50°C while mixing. Add phase C ingredients while mixing. Homogenise with 2500 – 3500 RPM, 90 sec.
5. Cool the batch down to 25°C. Add phase D ingredients while mixing. Homogenise with 2500 – 3500 RPM, 30 sec.

Economy hand cream [KD-299]

Phase	INCI name	Brand name	Concentration [%]	Function
A	Cetearyl Alcohol, Ceteareth-20	EXOcare TE20	3.00	Emulsion stabilizer
A	Paraffinum Liquidum	–	7.00	Emollient
A	Ceteareth-12	ROKAnol T12	1.50	Emulsifier
A	Tocopheryl Acetate	–	0.10	Active
A	PPG-15 Stearyl Ether	ROKAnol SP15L	2.00	Emollient
B	Aqua	–	to 100.00	Solvent
B	Allantoin	–	0.10	Active
B	Glycerin	–	2.00	Solvent
B	Aqua, Sodium Benzoate, Potassium Sorbate	–	0.70	Preservative
B	Lactic Acid	–	0.15	pH adjuster
C	Dimethicone	–	1.00	Emolient
C	Sodium Polyacrylate, Ethylhexyl Stearate, Trideceth-6	–	1.00	Rheology modifier
D	Parfum	–	0.30	Fragrance

Appearance	Visual method	White emulsion
pH	–	5.0 – 5.5
Stability	1 month at 5°C, 20°C, 40°C	Confirmed

Procedure:

1. In separate vessels combine ingredients from phase A and B.
2. Heat phase A and B to 75 – 80°C.
3. Add phase A into phase B while mixing, keep A/B at 75 – 80°C. Homogenize with 2000 – 3000 RPM, 120 sec.
4. Cool the batch down to 50°C while mixing. Add phase C ingredients while mixing. Homogenize with 2500 – 3500 RPM, 90 sec.
5. Cool the batch down to 25°C. Add phase D ingredients while mixing. Homogenize with 2500 – 3500 RPM, 30 sec.

Toilet block

INCI name	Brand name	Concentration [%]	Function
Cetareth-25	ROKAnol T25	75.0	Consistency adjuster
Cocamidopropyl Betaine	ROKAmina K40HC	14.0	Foaming agent
PEG-135	POLIKOL 6000	10.0	Consistency adjuster
Additives	–	1.0	Additives

Appearance Visual method

Solid

pH

–

5.0 – 6.0

Procedure:

1. Add ROKAnol T25, POLIKOL 6000 into a reactor and heat up to 80°C and then mix.
2. Then add ROKAmina K40HC and mix.
3. Cool to 50°C and add additives, then mix.
4. Pour into the form.

Adhesive toilet gel

INCI name	Brand name	Concentration [%]	Function
Cetareth-25	ROKAnol T25	35.0	Consistency adjuster
Cocamidopropyl Betaine	ROKAmina K30	16.0	Foaming agent
C9-11 Pareth-12	ROKAnol NL12W/80	4.0	Cleaning agent
Glycerin	–	5.0	Anti-drying agent
Water & additives	–	up to 100	Solvent and additives

Appearance Visual method

Gel

pH

–

5.0 – 6.0

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

Adhesive toilet gel

INCI name	Brand name	Concentration [%]	Function
Cetareth-25	ROKAnol T25	35.0	Consistency adjuster
Sodium Laureth Sulfat	SULFOROKAnol L227/1	16.0	Foaming agent
Trideceth-12	ROKAnol IT12	3.2	Cleaning agent/consistency adjuster
Glycerin	–	5.0	Anti-drying agent
Water & additives	–	up to 100	Solvent and additives

Appearance	Visual method	Gel
pH	–	5.0 – 6.0

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 **SULFOROKAnol L227/1**, then mix.
4. Add **ROKAnol IT12**, Glycerin and other additives
5. Mix until a clear solution is obtained.
6. Measure the required parameters.



This image shows a full page of blank, lined paper. It features approximately 28 horizontal ruling lines spaced evenly across the page, typical of standard notebook paper. The lines are thin and light gray or blue. There is no handwriting, printed text, or other markings on the page.

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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