



Textile Industry

Local. Global. Integrated.

Operating in 17 countries, in 39 different locations, PCC SE currently employs over 3 300 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.

PCC EXOL pays special attention to the issue of sustainable development, which is one of the key elements of the company's strategy. In order to strengthen its competitive position in the surfactants market, the company is committed to promoting responsible production and consumption throughout the value chain. The concept of sustainable development is therefore a key aspect of all the company's management and operational processes.

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Polyols 	Chlorine 	Phosphorus 	Surfactants 	Alkylphenols 
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01 / Textile Industry

Introduction

The mechanical and chemical treatment of fiber, used in textile industry, involves various intermediate steps in which surface active substances play an important role. Their function deals mainly with proper wetting process of fiber and fabric which influences the improvement in dye sorption and adhesive properties of fiber. Additionally, surfactants are responsible for emulsification and dispersing processes. They improve the resistance to abrasion,

removing natural impurities and those generated during processing fiber. At the same time they improve wash fastness of the dye in fiber.

PCC EXOL manufactures a wide and varied range of textile auxiliaries used as wetting agents, emulsifiers, dispersants, dye levelling agents, lubricants and antistatics. Our products include the following anionic and nonionic surfactants:

alkyl benzene sulfonates (ABS Acid, ABSNa)	alkyl ether sulphates (SULFOROKAnols)	alkyl sulphates (ROSULfans)	polyethylene glycols (POLIkols)	alcohol ethoxylates (ROKAnols)	nonylphenol alkoxylates (ROKAfenols)
fatty acid ethoxylates (ROKAcets)	fatty acid amide ethoxylates (ROKAuids)	fatty amine ethoxylates (ROKAmins)	EO/PO block copolymers (ROKAuers)	sorbitan esters (ROKwin)	sorbitan esters ethoxylates (ROKwinol)



Processes in textile industry

Spinning process is the initial step in manufacturing of knitwear and fabric. The major aim of spinning is to produce the quality yarn using raw material. Production of yarn from bulk of loose fiber generates the opportunity to produce union fiber. During spinning process, it is very important to protect fiber from abrasion and damage. Some surfactants can ensure appropriate fiber lubricity. They also can help to emulsify oily components of recipe used in the spinning process. Usually warp yarn is coated with sizing agent before weaving. The major aims of using sizing preparation are: to reduce frictional properties of fiber, to decrease yarn breakages on the loom, to improve weaving productivity.

Products occurring on the surface of the warp may adversely affect the action of the dye and auxiliary agent in the next steps of fiber treatment. Therefore, these size agents have to be removed before subsequent processing of the fabric. That is why the process during which the sizing agent is removed from the fiber is called **desizing**.

In the textile industry, one of the first steps of chemical fiber treatment is **scouring process**. Fiber has natural impurities: waxes, pectins, fats, oils and other which are obtained on the surface after using size or lubricants in spinning, weaving or knitting processes. Scouring process is a very important stage in fiber treatment allowing fiber to be bleached and dyed successfully in further processing. Scouring agents should have excellent degreasing properties, low foaming and wetting on fiber surface. After dirt is removed, surfactants have to emulsify and disperse it.

Bleaching process is a chemical treatment of fiber in order to remove naturally occurring colour. Bleaching is a very important stage in fiber treatment that affects further fiber processing. Appropriate and uniform bleaching is necessary especially for dyeing process. The bleaching bath usually comprises:

- sodium hydroxide (caustic soda),
- hydrogen peroxide,
- stabilizing agent,
- very significant wetting agent.

The final contents of the bath components are dependent on the type of fiber as well as the method used during the bleaching process, i.e. the exhaust

method, pad steam or cold pad batch. Wetting agent may be either a blend of PCC EXOL products or a composition of PCC EXOL surfactants with some kind of solvents.

The major aims of wetting agent are:

- to improve the wetting capability of the fiber,
- to increase a capillarity and hydrophilicity of the dye,
- to increase the availability of the dye sorption on the fiber surface,
- to improve penetration of bleaching agents in the fiber,
- to remove air bubbles from fiber for uniform and better bleaching.

Dyeing process is the consecutive step in the chemical processing of fiber, yarn and fabric during which the textile article is given the final colour. Substantial numbers of dyes are used in this process, including the type of chemical molecule and the resulting colour with the different possibilities of applying its on the textile surface. Usually dyeing is carried out by the following methods:

- periodic (exhaust method),
- semi-continuous or continuous (Pad Dry, Pad Steam, Cold Pad Batch).

Dyeing bath is composed of aqueous solution containing dye and other chemicals. Usually these auxiliary agents are surface active substances and electrolytes. The essential aims of PCC EXOL products application in dyeing are:

- to improve wetting of yarn or fabric,
- to improve penetration of the dye in to the fiber surface,
- to uniform dispersing of the dye in bath,
- to level in order to ensure uniform and reproducible distribution of the dye in fiber, yarn and fabric,
- in some cases to decrease the creation of foam capability by low foaming surfactant,
- to wash and remove loose bounded dye with increasing of the wetting resistance of dyes bounded with fabric.

Finishing process is the final stage of treatment of fiber before marketing. The main task of this process is to improve the general characteristics and comfort in the further application by the User. Surfactants and other additives allow giving the functional characteristics to a final treatment such as:

- proper catch,
- filling,
- smoothness,
- antishrinkage,
- antiwrinkle,
- smoothness after washing without ironing and others.



Textile Auxiliary – product list

Product	Spinning	Desizing	Scouring	Bleaching	Dyeing	Finishing	Ionic character	Description	CAS	HLB
ABS Acid		●	●	●			A	Dodecylbenzene Sulfonic Acid	85536-14-7	–
ABS Acid/1		●	●	●			A	Dodecylbenzene Sulfonic Acid	85536-14-7	–
ABSNa 30		●	●	●			A	Sodium Dodecylbenzenesulfonate	68411-30-3	–
ABSNa 50		●	●	●			A	Sodium Dodecylbenzenesulfonate	68411-30-3	–
SULFOROKAnol L225/1		●	●	●			A	Sodium Laureth Sulfate	68891-38-3	–
SULFOROKAnol L227/1		●	●	●			A	Sodium Laureth Sulfate	68891-38-3	–
SULFOROKAnol L270/1		●	●	●			A	Sodium Laureth Sulfate	68891-38-3	–
SULFOROKAnol L327		●	●	●			A	Sodium C12-C15 Pareth Sulfate	68891-38-3	–
ROSULfan D		●	●	●			A	Sodium Decyl Sulfate	142-87-0	–
ROSULfan E		●	●	●			A	Sodium 2-Ethylhexyl Sulfate	126-92-1	–
ROSULfan L		●	●	●			A	Sodium Lauryl Sulfate	85586-07-8	–
ROSULfan O		●	●	●			A	Sodium Octyl Sulphate	142-31-4	–
EXOfos PA-080S			●	●		●	A	2-Ethylhexyl Ether Phosphate	12645-31-7	–
EXOfos PA-1300		●		●			A	Tridecyl Ether Phosphate	–	–
EXOfos PB-043K			●	●		●	A	POE (3) Butyl Alcohol Ether Phosphate, Potassium salt	–	–
EXOfos PB-083			●	●		●	A	POE (3) 2-Ethylhexyl Ether Phosphate	68439-39-4	–
EXOfos PB-136		●	●	●			A	POE (6) Tridecyl Ether Phosphate	9046-01-9	–
EXOfos PB-136B		●	●	●			A	POE (6) Tridecyl Ether Phosphate	9046-01-9	–
EXOfos PB-138			●	●		●	A	POE (8) Tridecyl Ether Phosphate	39464-69-2	–
EXOfos PB-139		●	●	●			A	POE (9) Tridecyl Ether Phosphate	9046-01-9	–
EXOfos PB-184			●	●		●	A	POE (4) Oleyl Ether Phosphate	39464-69-2	–
EXOfos PB-264		●	●	●			A	POE (4) Lauryl Ether Phosphate	68511-37-5	–
EXOfos PT-E		●	●	●			A	POE (16) Tristyrylphenol Ether Phosphate	90093-37-1	–
ROKAfos 1013		●	●		●		A	POE (9)Tridecyl Ether Phosphate	9046-01-9	–
POLIkol 200					●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 300					●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 400					●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 600					●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 1500					●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 1500 flakes					●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 2000					●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 2000 flakes					●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 6000					●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 6000 flakes					●	●	N	Polyoxyethylene glycol	25322-68-3	–
ROKAnol B2			●	●			N	Alcohols, C16-18 + EO/PO	68002-96-0	6.2

Textile Auxiliary – product list

Product	Spinning	Desizing	Scouring	Bleaching	Dyeing	Finishing	Ionic character	Description	CAS	HLB
ROKAnol D5			●	●			N	Alcohols, C10-16 + 5 EO	78330-20-8	11.9
ROKAnol D7			●	●			N	Alcohols, C10-16 + 7 EO	68002-97-1	13.1
ROKAnol DB3	●			●		●	N	Alcohols, C12-15 + 3 EO	68131-39-5	7.8
ROKAnol DB5	●		●	●		●	N	Alcohols, C12-15 + 5 EO	68131-39-5	10.5
ROKAnol DB6	●		●	●		●	N	Alcohols, C12-15 + 5 EO	68131-39-5	11.4
ROKAnol DB6M	●		●	●		●	N	Alcohols, C12-15 + 5 EO	68131-39-5	11.4
ROKAnol DB7	●		●	●		●	N	Alcohols, C12-15 + 7 EO	68131-39-5	12.0
ROKAnol DB7R	●		●	●		●		Alcohols, C12-15 + 7 EO	68131-39-5	12.0
ROKAnol DB7W	●		●	●		●	N	Alcohols, C12-15 + 7 EO	68131-39-5	12.0
ROKAnol DB9	●		●	●		●		Alcohols, C12-15 + 9 EO	68131-39-5	13.2
ROKAnol DB11W			●			●	N	Alcohols, C12-15 + 11 EO	68131-39-5	13.6
ROKAnol EH3	●			●		●	N	Isooctanol + 3 EO	26468-86-0	–
ROKAnol G8				●		●	N	Glycereth-8	31694-55-0	14.0
ROKAnol G12				●		●	N	Glycereth-12	31694-55-0	17.0
ROKAnol G15				●		●	N	Glycereth-15	31694-55-0	17.5
ROKAnol GA3		●	●	●			N	Alcohols, C10 + 3 EO	160875-66-1	9.0
ROKAnol GA4		●	●	●			N	Alcohols, C10 + 4 EO	160875-66-1	–
ROKAnol GA5		●	●	●			N	Alcohols, C10 + 5 EO	160875-66-1	–
ROKAnol GA5W		●	●	●			N	Alcohols, C10 + 5 EO	160875-66-1	–
ROKAnol GA6		●	●	●			N	Alcohols, C10 + 6 EO	160875-66-1	12.5
ROKAnol GA7	●	●	●	●	●	●	N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA7LA	●	●	●	●	●	●	N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA7LAW	●	●	●	●	●	●	N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA7W	●	●	●	●	●	●	N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA8	●	●	●	●			N	Alcohols, C10 + 8 EO	160875-66-1	14.0
ROKAnol GA8LA	●	●	●	●	●		N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA8W	●	●	●	●			N	Alcohols, C10 + 8 EO	160875-66-1	14.0
ROKAnol GA9		●	●	●	●		N	Alcohols, C10 + 9 EO	160875-66-1	14.5
ROKAnol GA9LA		●	●	●	●		N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA9W/80		●	●	●	●		N	Alcohols, C10 + 9 EO	160875-66-1	–
ROKAnol GT3	●		●				N	Alcohols, C9-16 + 3 EO	97043-91-9	8.5
ROKAnol GT5	●	●	●		●		N	Alcohols, C9-16 + 5 EO	97043-91-9	10.7
ROKAnol GT6	●	●	●	●	●		N	Alcohols, C9-16 + 6 EO	97043-91-9	12.0
ROKAnol GT7	●	●	●	●	●	●	N	Alcohols, C9-16 + 7 EO	97043-91-9	12.8
ROKAnol GT8	●	●	●	●	●	●	N	Alcohols, C9-16 + 8 EO	97043-91-9	13.3
ROKAnol GT9	●	●	●		●	●	N	Alcohols, C9-16 + 9 EO	97043-91-9	–

Textile Auxiliary – product list

Product	Spinning	Desizing	Scouring	Bleaching	Dyeing	Finishing	Ionic character	Description	CAS	HLB
ROKAnol GT9W	●	●	●		●	●	N	Alcohols, C9-16 + 9 EO	97043-91-9	–
ROKAnol GT10					●		N	Alcohols, C9-16 + 10 EO	97043-91-9	–
ROKAnol GT10W					●		N	Alcohols, C9-16 + 10 EO	97043-91-9	–
ROKAnol GT12					●		N	Alcohols, C9-16 + 12 EO	97043-91-9	15.0
ROKAnol ID5		●	●	●	●	●	N	Isodecanol + 5 EO	78330-20-8	11.7
ROKAnol ID6		●	●	●	●	●	N	Isodecanol + 6 EO	78330-20-8	12.4
ROKAnol ID7		●	●	●	●	●	N	Isodecanol + 7 EO	78330-20-8	13.2
ROKAnol ID8		●	●	●	●		N	Isodecanol + 8 EO	78330-20-8	13.8
ROKAnol IT3	●		●				N	Alcohols, C13, branched + 3 EO	69011-36-5	8.0
ROKAnol IT5	●	●	●		●		N	Alcohols, C13, branched + 5 EO	69011-36-5	10.5
ROKAnol IT6	●	●	●	●	●		N	Alcohols, C13, branched + 6 EO	69011-36-5	11.4
ROKAnol IT6R	●	●	●	●	●		N	Alcohols, C13, branched + 6 EO	69011-36-5	11.5
ROKAnol IT7	●	●	●	●	●	●	N	Alcohols, C13, branched + 7 EO	69011-36-5	12.1
ROKAnol IT7W	●	●	●	●	●	●	N	Alcohols, C13, branched + 7 EO	69011-36-5	12.1
ROKAnol IT8	●	●	●	●	●	●	N	Alcohols, C13, branched + 8 EO	69011-36-5	12.8
ROKAnol IT9	●	●	●		●	●	N	Alcohols, C13, branched + 9 EO	69011-36-5	13.3
ROKAnol IT9W	●	●	●		●	●	N	Alcohols, C13, branched + 9 EO	69011-36-5	13.3
ROKAnol IT10					●		N	Alcohols, C13, branched + 10 EO	69011-36-5	13.8
ROKAnol IT12					●		N	Alcohols, C13, branched + 12 EO	69011-36-5	14.5
ROKAnol IT12R					●		N	Alcohols, C13, branched + 12 EO	69011-36-5	14.5
ROKAnol IT20					●		N	Alcohols, C13-Iso + 20 EO	69011-36-5	15.9
ROKAnol K3			●				N	Alcohols, C16-18 unsaturated + 3 EO	68920-66-1	7.0
ROKAnol K5			●				N	Alcohols, C16-18 unsaturated + 5 EO	68920-66-1	9.2
ROKAnol K7			●				N	Alcohols, C16-18 unsaturated + 7 EO	68920-66-1	10.8
ROKAnol K18ROK			●		●		N	Alcohols, C16-18 unsaturated + 18 EO	68920-66-1	16.3
ROKAnol K21			●		●		N	Alcohols, C16-18 unsaturated + 21 EO	68920-66-1	16.5
ROKAnol L4	●			●	●		N	Alcohols, C12-14 + 4 EO	68439-50-9	10.0
ROKAnol L4P5	●		●	●	●		N	Alcohols, C12-14 + EO/PO	68439-51-0	5.3
ROKAnol L5A	●			●	●		N	Alcohols, C12-16 + 5 EO	68551-12-2	10.5
ROKAnol L5P5	●		●	●	●		N	Alcohols, C12-14 + EO/PO	68439-51-0	6.0
ROKAnol L7	●			●	●		N	Alcohols, C12-14 + 7 EO	68439-50-9	12.9
ROKAnol L7A	●			●	●		N	Alcohols, C12-16 + 7 EO	68551-12-2	12.9
ROKAnol L7W	●			●	●		N	Alcohols, C12-14 + 7 EO	68439-50-9	12.9
ROKAnol L9A	●			●	●		N	Alcohols, C12-16 + 9 EO	–	–
ROKAnol L9AW	●			●	●		N	Alcohols, C12-16 + 9 EO	–	13.3
ROKAnol L10	●		●	●	●		N	Alcohols, C12-14 + 10 EO	68439-50-9	14.1

Textile Auxiliary – product list

Product	Spinning	Desizing	Scouring	Bleaching	Dyeing	Finishing	Ionic character	Description	CAS	HLB
ROKAnol L10A	●		●	●	●		N	Alcohols, C12-16 + 10 EO	68551-12-2	14.1
ROKAnol L10/80	●		●	●	●		N	Alcohols, C12-14 + 10 EO	68439-50-9	14.1
ROKAnol L80/50W	●		●	●	●		N	Alcohol, C12-14 + EO/PO	68439-51-0	17.6
ROKAnol LK1	●		●	●	●		N	Alcohols, C12-14 + EO	68439-50-9	3.7
ROKAnol LK2	●		●			●	N	Alcohols, C12-14 + 2 EO	68439-50-9	6.2
ROKAnol LK3	●		●			●	N	Alcohols, C12-14 + 3 EO	68439-50-9	7.8
ROKAnol LP2024W/95			●	●	●		N	Alcohols, C10 + EO/PO	37251-67-5	6.3
ROKAnol LP100			●	●	●		N	Alcohols, C12-15 + EO/PO	120313-48-6	–
ROKAnol LP1319			●	●	●		N	Alcohols, C16-18 + EO/PO	68002-96-0	–
ROKAnol LP160			●	●	●		N	Alcohols, C12-14 + PO	68439-51-0	–
ROKAnol LP200			●	●	●		N	Isodecyl Alcohol + EO/PO	68439-30-5	–
ROKAnol LP2023			●	●	●		N	Alcohols, C16-18 + EO/PO	68002-96-0	–
ROKAnol LP2126			●	●	●		N	Alcohols, C16-18 + EO/PO	68002-96-0	–
ROKAnol LP2227			●	●	●			2-Propylheptanol + EO/PO	166736-08-9	–
ROKAnol LP2529			●	●	●		N	Alcohols, C12-14 + EO/PO	68551-13-3	3.5
ROKAnol LP27		●	●	●	●		N	Alcohols, C12-14 + EO/PO	68439-51-0	6.0
ROKAnol LP3135			●	●	●		N	Alcohols, C9-11 + EO/PO	154518-36-2	–
ROKAnol LP3943		●	●	●			N	Alcohols, C12-15 EO/PO	120313-48-6	–
ROKAnol LP400		●	●	●	●		N	Isodecyl Alcohol + EO/PO	103818-93-5	–
ROKAnol LP60			●	●	●		N	Alcohols, C9-11+PO	68920-69-4	–
ROKAnol LP700		●	●	●	●		N	Isotridecyl Alcohol + EO/PO	196823-11-7	–
ROKAnol LP911		●	●	●	●		N	Alcohols, C9-11+ EO/PO	102782-43-4	–
ROKAnol MT5E		●			●	●	N	Alcohols, C8-18 + 5 EO	157707-43-2	–
ROKAnol MT7E		●			●	●	N	Alcohols, C8-18 + 7 EO	157707-43-2	–
ROKAnol NL3		●			●		N	Alcohols, C9-11 + 3 EO	68439-46-3	8.5
ROKAnol NL4		●		●	●	●	N	Alcohols, C9-11 + 4 EO	68439-46-3	–
ROKAnol NL5		●		●	●	●	N	Alcohols, C9-11 + 5 EO	68439-46-3	11.6
ROKAnol NL6		●	●	●	●	●	N	Alcohols, C9-11 + 6 EO	68439-46-3	12.5
ROKAnol NL6W		●	●	●	●	●	N	Alcohols, C9-11 + 6 EO	68439-46-3	–
ROKAnol NL6W/95		●	●	●	●	●	N	Alcohols, C9-11 + 6 EO	68439-46-3	12.5
ROKAnol NL8		●	●	●	●	●	N	Alcohols, C9-11 + 8 EO	68439-46-3	15.7
ROKAnol NL8W		●	●	●	●	●	N	Alcohols, C9-11 + 8 EO	68439-46-3	13.8
ROKAnol NL8P4		●	●	●	●	●	N	Alcohols, C9-11 + EO/PO	103818-93-5	9.5
ROKAnol NL9			●				N	Alcohols, C9-11 + 8 EO	68439-46-3	–
ROKAnol O3						●	N	Oleyl Alcohol + 3 EO	9004-98-2	7.1
ROKAnol O5						●	N	Oleyl Alcohol + 5 EO	9004-98-2	9.1

Textile Auxiliary – product list

Product	Spinning	Desizing	Scouring	Bleaching	Dyeing	Finishing	Ionic character	Description	CAS	HLB
ROKAnol O18						●	N	Oleyl Alcohol + 18 EO	9004-98-2	16.3
ROKAnol O20						●	N	Oleyl Alcohol + 20 EO	9004-98-2	15.3
ROKAnol O100						●	N	Oleyl Alcohol + 100 EO	9004-98-2	18.8
ROKAnol RZ4P11™			●				N	Alcohols, C16-18 + EO/PO	68002-96-0	3.3
ROKAnol T6			●		●		N	Alcohols, C16-18 + 6 EO	68439-49-6	10
ROKAnol T12			●		●		N	Alcohols, C16-18 + 12 EO	68439-49-6	13.5
ROKAnol T18					●		N	Alcohols, C16-18 + 18 EO	68439-49-6	16.3
ROKAnol T18W					●		N	Alcohols, C16-18, ethoxylated Aqueous solution	68439-49-6	16.3
ROKAnol T20					●		N	Alcohols, C16-18 + 20 EO	68439-49-6	15.3
ROKAnol T20 flakes					●		N	Alcohols, C16-18 + 20 EO	68439-49-6	15.3
ROKAnol T25					●		N	Alcohols, C16-18 + 25 EO	68439-49-6	16
ROKAnol T25 flakes					●		N	Alcohols, C16-18 + 25 EO	68439-49-6	16
ROKAnol TMP3		●			●		N	Alcohols, C13-15 + 3 EO	157627-86-6	–
ROKAnol TMP5		●		●	●	●	N	Alcohols, C13-15 + 5 EO	157627-86-6	12
ROKAnol TMP7		●	●	●	●	●	N	Alcohols, C13-15 + 7 EO	157627-86-6	12
ROKAnol TMP7R		●	●	●	●	●	N	Alcohols, C13-15 + 7 EO	157627-86-6	12
ROKAnol UD3	●	●	●	●			N	Alcohols, C11-Iso + 3 EO	127036-24-2	8.7
ROKAnol UD5	●	●	●	●	●	●	N	Alcohols, C11-Iso + 5 EO	127036-24-2	11.0
ROKAnol UD7	●	●	●	●	●	●	N	Alcohols, C11-Iso + 7 EO	127036-24-2	12.3
ROKAfenol N7	●	●	●	●	●		N	Nonylphenol + 7 EO	127087-87-0	11.5
ROKAfenol N8	●	●	●	●	●		N	Nonylphenol + 9 EO	127087-87-0	12.5
ROKAfenol N8P7	●	●	●	●	●		N	Nonylphenol + EO/PO	37251-69-7	7.7
ROKAfenol N8P14	●	●	●	●	●		N	Nonylphenol + EO/PO	37251-69-7	5.5
ROKAfenol N9	●	●		●	●		N	Nonylphenol + 9 EO	127087-87-0	12.8
ROKAmid MRZ17	●				●		N	Glyceryl Reapeate + 17 EO	221045-17-6	–
ROKAmid RAD	●				●		N	Oleamide DEA	68603-38-3	–
ROKAmin K15					●		N	Cocamine + 15 EO	61791-14-8	15.5
ROKAmin K15K						●	C	Cocamine + 15 EO, Methosulfate	68989-03-7	–
ROKAmin SR5					●		N	Tallow Amine + 5.8 EO	61791-26-2	9.8
ROKAmin SR8				●	●		N	Tallow Amine + 10 EO	61791-26-2	12.4
ROKAmin SR8K				●	●		N	Tallow Amine + 10 EO	–	12.4
ROKAmin SRK8						●	N	Tallow Amine + 8 EO, Methosulfate	73138-81-5	–
ROKAmin SR8P4			●	●	●		N	Tallow Amine + EO/PO	–	8.8
ROKAmin SR11				●	●		N	Tallow Amine + 11 EO	61791-26-2	12.5
ROKAmin SR22				●	●		N	Tallow Amine + 25 EO	61791-26-2	16.1
ROKAcet K7	●					●	N	Cocoate + 7 EO	61791-29-5	11.6

Textile Auxiliary – product list

Product	Spinning	Desizing	Scouring	Bleaching	Dyeing	Finishing	Ionic character	Description	CAS	HLB
ROKAcet KO300G	●					●	N	Glyceryl Cocoate + 7 EO	68201-46-7	–
ROKAcet O7	●		●				N	Oleate + 7 EO	9004-96-0	10.6
ROKAcet R11					●	●	N	Castor Oil + 11 EO	61791-12-6	–
ROKAcet R26					●	●	N	Castor oil + 26 EO	61791-12-6	11.0
ROKAcet R36					●	●	N	Castor Oil + 36 EO	61791-12-6	–
ROKAcet R40					●	●	N	Castor oil + 40 EO	61791-12-6	13.0
ROKAcet R70					●		N	Castor oil + 70 EO	61791-12-6	15.4
ROKAcet S7						●	N	Stearate + 7 EO	9004-99-3	10.6
ROKAcet S24						●	N	Stearate + 24 EO	9004-99-3	15.8
ROKAmer 1000				●	●		N	PEG/PPG-Copolymer	9003-11-6	–
ROKAmer 1010				●	●		N	PEG/PPG-Copolymer	9003-11-6	16.6
ROKAmer 1010/50				●	●		N	PEG/PPG-Copolymer	9003-11-6	16.6
ROKAmer 2000			●	●	●		N	PEG/PPG Copolymer	9003-11-6	2.4
ROKAmer 2100		●	●		●		N	PEG/PPG-Copolymer	9003-11-6	3.4
ROKAmer 2330		●	●		●		N	PEG/PPG-Copolymer	9003-11-6	4.9
ROKAmer 2400			●	●	●		N	PEG/PPG-Copolymer	9003-11-6	
ROKAmer 2600			●	●	●		N	PEG/PPG Copolymer	9003-11-6	5.6
ROKAmer 2950		●	●	●	●	●	N	PEG/PPG-Copolymer	9003-11-6	8.1
ROKAmer G3400			●	●	●		N	Glycerine + EO/PO	9082-00-2	–
ROKAmer G3500			●	●	●		N	Glycerine + EO/PO	9082-00-2	–
ROKAmer G3800			●	●	●		N	Glycerine + EO/PO	9082-00-2	–
ROKAmer G5000E			●	●	●		N	Glycerine + EO/PO	9082-00-2	–
ROKAmer PP450		●	●	●	●	●	N	PPG	25322-69-4	–
ROKAmer PP2000			●	●	●		N	PPG	25322-69-4	–
ROKAmer PP4000			●	●	●		N	PPG	25322-69-4	–
ROKwin 60	●				●		N	Sorbitan Monostearate	1338-43-8	4.7
ROKwin 80	●				●		N	Sorbitan Monooleate	1338-43-8	–
ROKwinol 20	●				●	●	N	Sorbitan Monooleate + 20 EO	9005-64-5	15.0
ROKwinol 60	●				●	●	N	Sorbitan Monostearate + 20 EO	9005-67-8	–
ROKwinol 80	●				●	●	N	Sorbitan Monooleate + 20 EO	9005-65-6	–
Tequat L90i						●	K	Quaternary methylsulfate of fatty acid diesters with triethanolamine in isopropanol	–	–
EXOdemul S-11		●				●	N	PEG/PPG-Copolymer	–	–
EXOdemul WD-18		●				●	N	PEG/PPG-Copolymer	9003-11-6	–



02 / Main functions of surfactants in textile industry

EXOfos Series

EXOfos Series are highly active anionic surfactants – acidic phosphate esters. The products are manufactured with

inherent mono- and diester content and will contain residual phosphoric acid, alkoxyated and non-alkoxyated materials.

Applications



Benefits

- excellent solubilizing properties
- good wetting properties
- good temperature resistance
- compatible with wide range of nonionic surfactants
- compatible with other additives
- effective ingredient of laundry agents
- good cleaner properties



Additional information

Physicochemical parameters	EXOfos PA-080S	EXOfos PA-1300	EXOfos PB-043K	EXOfos PB-083	EXOfos PB-136	EXOfos PB-136B
CAS	12645-31-7	–	–	68439-39-4	9046-01-9	9046-01-9
Chemical name	2-Ethylhexyl Ether Phosphate	Tridecyl Ether Phosphate	POE (3) Butyl Alcohol Ether Phosphate, Potassium salt	POE (3) 2-Ethylhexyl Ether Phosphate	POE (6) Tridecyl Ether Phosphate	POE (6) Tridecyl Ether Phosphate
Appearance at temperature (20 ÷ 25)°C	clear liquid	liquid	viscous liquid	(40 ÷ 45°C): clear to slightly opaque yellow liquid	clear to slightly hazy liquid	clear to slightly hazy liquid
Color (Gardner) at (20 ÷ 25)°C	max.4	max.4	(at 40°C) max. 3	(at 40°C) max. 2	(at 40°C) max. 2	(at 40°C) max. 2
pH	(1% solution) 1.5 ÷ 3.0	(1% aq/EtOH solution) approx. 2.5	(5% solution) 7 ÷ 8	(1% solution) 1.5 ÷ 3.0	(1% solution) 1.0 ÷ 2.5	(1% solution) 1.5 ÷ 3.0
Acid Value (to the first inflection point), mg KOH/g	record (205 ÷ 220)	recorded (150 ÷ 170)	–	typical (90 ÷ 130)	typical (60 ÷ 90)	75 ÷ 85
Acid Value (to the second inflection point), mg KOH/g	290 ÷ 350	230 ÷ 255	–	180 ÷ 200	90 ÷ 150	typical (120 ÷ 150)
Water, % (m/m)	max.1.0	max.1.0	49 ÷ 51	max.1	max. 1	max.0.8
Active substance, % (m/m)	approx. 100	approx. 100	49 ÷ 51	approx. 100	approx. 100	approx. 100
Density at 25°C, g/mL	approx. 1.02	approx. 0.98	(at 20°C) approx. 1.14	approx. 1.08	approx. 1.05	approx. 1.05
Viscosity at 25°C, cP	approx. 1500	approx. 1100	approx. 3200	approx. 700	approx. 1000	approx. 750
Surface tension of 0.1% solution at 25°C, mN/m	32	31	36	30	28	28



Additional information

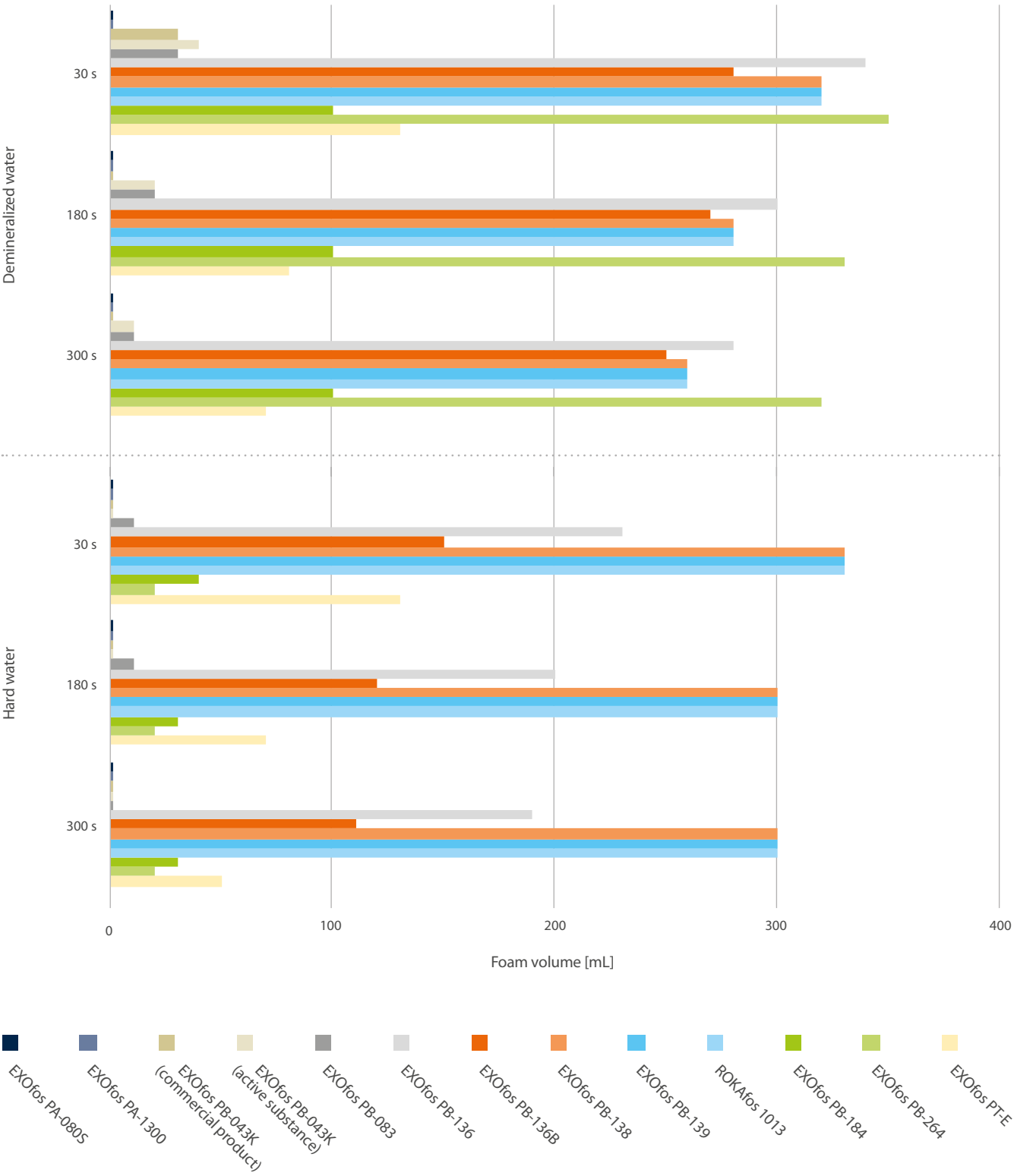
Physicochemical parameters	EXOfos PB-138	EXOfos PB-139	ROKAfos 1013	EXOfos PB-184	EXOfos PB-264	EXOfos PT-E
CAS	9046-01-9	9046-01-9	9046-01-9	39464-69-2	68511-37-5	90093-37-1
Chemical name	POE (8) Tridecyl Ether Phosphate	POE (9) Tridecyl Ether Phosphate	POE (9) Tridecyl Ether Phosphate	POE (4) Oleyl Ether Phosphate	POE (4) Lauryl Ether Phosphate	POE (16) Tristyrylphenol Ether Phosphate
Appearance at temperature (20 ± 25)°C	(40°C): liquid	clear to slightly hazy liquid	clear to slightly hazy liquid	viscous liquid	viscous liquid	viscous liquid
Color (Gardner) at (20 ± 25)°C	(Hazen scale at 40°C) max. 150	(at 40°C) max. 3	(at 40°C) max. 3	max.12	max.2	–
pH	(1.5% solution) 2 ÷ 3	1.5 ÷ 3.0	(1% solution) 1.5 ÷ 3.0	(1% solution) 1.5 ÷ 3.0	max.1.2	(5% solution) 1.0 ÷ 3.0
Acid Value (to the first inflection point), mg KOH/g	typical (75 ÷ 85)	record (50 ÷ 70)	60 ÷ 70	82.0 ÷ 92.0	90 ÷ 110	typical (25 ÷ 35)
Acid Value (to the second inflection point), mg KOH/g	95 ÷ 115	87 ÷ 117	typical (87 ÷ 117)	135 ÷ 160	150 ÷ 180	50 ÷ 70
Water, % (m/m)	max.0.8	max.1.0	max.1.0	max.1	max.2.0	max.1
Active substance, % (m/m)	approx. 100	approx. 100	approx. 100	approx. 100	approx. 100	approx. 100
Density at 25°C, g/mL	approx. 1.08	approx. 1.05	approx. 1.05	approx. 1.01	approx. 1.03	approx. 1.14
Viscosity at 25°C, cP	approx. 1500	approx. 1500	approx. 1500	approx. 2300	approx. 800	approx. 6000
Surface tension of 0.1% solution at 25°C, mN/m	34	35	35	35	32	44



Foam capability

Foam capability was measured according to modified Ross-Miles' method (PN-ISO 696:1994) – the modified Ross-Miles method; at a temperature of 25°C, for a surfactant concentration of 1.0 g/L,

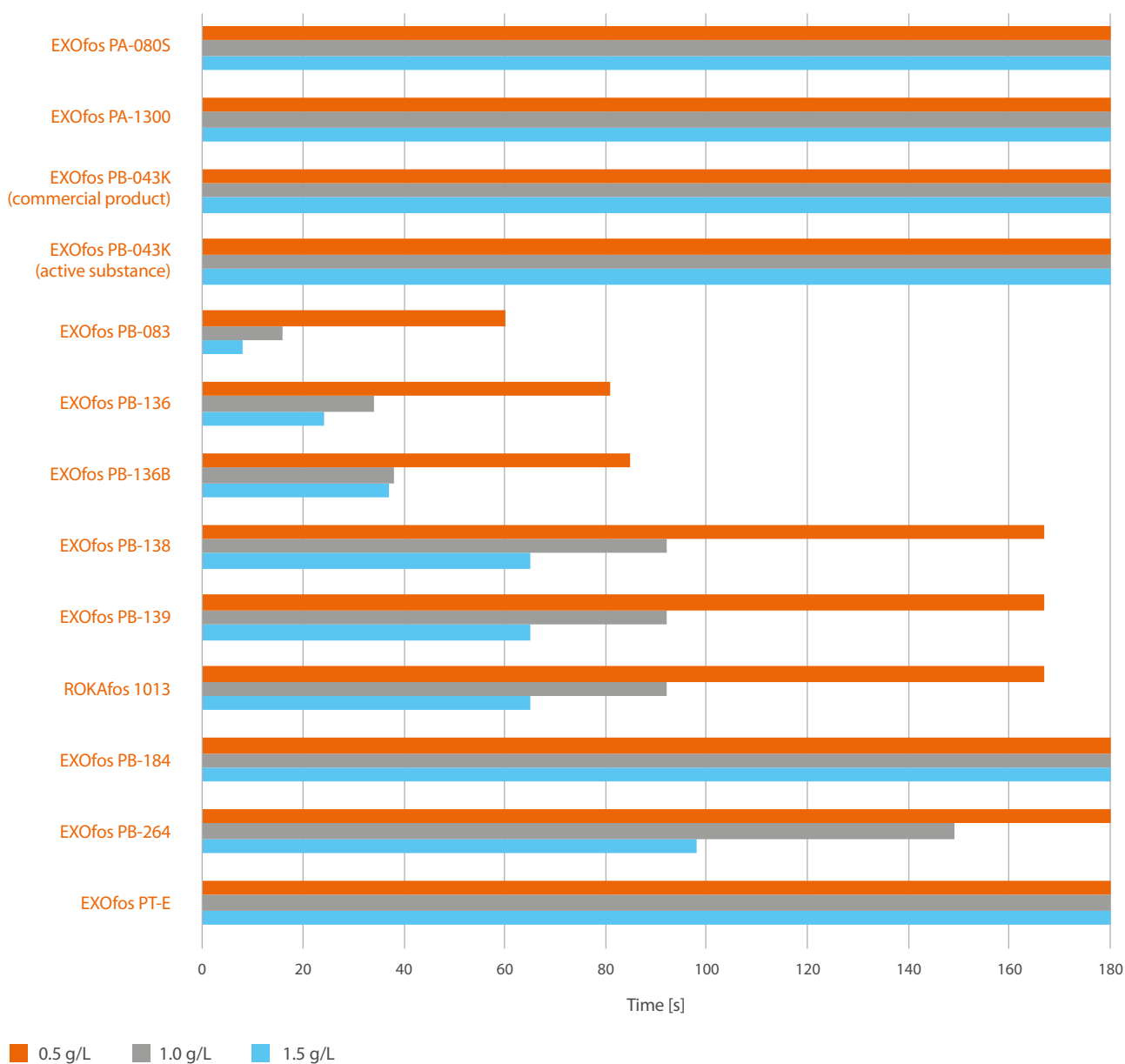
in both demineralized and hard (17°d) water. The foam value was measured after 30, 180 and 300 seconds. The results were presented on the graph.



Wetting capability

Wetting capability was measured at 20°C for three concentrations. The results were presented on the graph.

The capability of wetting cotton fabric was determined in accordance with PN-EN 1772:2001.



Alkali and acid resistance

The physical stability of surface active agents over a specified time, in acidic/alkaline environment, is the maximum concentration of acid/base (g/L), at which the surfactant can be dissolved in an acidic/alkaline solution with a concentration of 1% to form a

stable solution. Stability is determined by evaluating the appearance of solutions. The analysis of product stability has been performed in accordance with PN-EN 14712:2005.

Alkali resistance

NaOH con. [g/L]	10	50	70	80	90	100	110	120	130	140
Product name										
EXOfos PA- 080S	●	○								
EXOfos PA-1300	●	○								
EXOfos PB-043K	●	●	●	●	●	●	●	●	●	●
EXOfos PB-083	●	●	●	●	●	●	●	●	●	●
EXOfos PB-136	●	●	●	●	●	●	●	●	●	●
EXOfos PB-136B	●	●	●	●	●	●	●	○		
EXOfos PB-138	●	●	●	●	●	●	●	●	●	●
EXOfos PB-139	●	●	●	●	●	●	●	●	●	●
ROKAfos 1013	●	●	●	●	●	●	●	●	●	●
EXOfos PB-184	●	●	●	●	○					
EXOfos PB-264	●	●	●	●	●	●	●	●	●	●
EXOfos PT-E	●	●	●	●	●	○				

○ macroscopic phase separation ● homogeneous, cloudy solution ● clear, homogeneous solution ● homogeneous, opalescent solution

NaOH con. [g/L]	150	160	170	180	190	200	210	240	250	270	280
Product name											
EXOfos PA- 080S											
EXOfos PA-1300											
EXOfos PB-043K	●	●	○								
EXOfos PB-083	●	●	●	●	●	●	●	●	●	●	○
EXOfos PB-136	●	●	●	●	●	●	●	●	○		
EXOfos PB-136B											
EXOfos PB-138	●	●	●	●	●	●	○				
EXOfos PB-139	●	●	●	●	●	●	○				
ROKAfos 1013	●	●	●	●	●	●	○				
EXOfos PB-184											
EXOfos PB-264	●	●	●	●	○						
EXOfos PT-E											

○ macroscopic phase separation ● homogeneous, cloudy solution ● clear, homogeneous solution ● homogeneous, opalescent solution

Acid resistance

Product name \ H ₂ SO ₄ con. [mL/L]	1	10	20	30	100	120	140	225
EXOfos PA- 080S	○	○	○	○	○	○	○	○
EXOfos PA-1300	○	○	○	○	○	○	○	○
EXOfos PB-043K	●	●	●	●	●	●	●	●
EXOfos PB-083	○	○	○	○	○	○	○	○
EXOfos PB-136	○	○	○	○	○	○	○	○
EXOfos PB-136B	●	●	●	●	●	○	○	○
EXOfos PB-138	●	●	●	●	●	●	●	●
EXOfos PB-139	●	●	●	●	●	●	●	●
ROKAfos 1013	●	●	●	●	●	●	●	●
EXOfos PB-184	○	○	○	○	○	○	○	○
EXOfos PB-264	○	○	○	○	○	○	○	○
EXOfos PT-E	●	●	●	●	●	●	●	●

○ macroscopic phase separation ● homogeneous, cloudy solution ● clear, homogeneous solution ● homogeneous, opalescent solution

Solubility

Product name	Demineralized water	Methanol	Acetone	Ethyl ether
EXOfos PA- 080S	●	●	●	●
EXOfos PA-1300	●	●	●	●
EXOfos PB-043K	●	●	●	●
EXOfos PB-083	●	●	●	●
EXOfos PB-136	●	●	●	●
EXOfos PB-136B	●	●	●	●
EXOfos PB-138	●	●	●	●
EXOfos PB-139	●	●	●	●
ROKAfos 1013	●	●	●	●
EXOfos PB-184	●	●	●	●
EXOfos PB-264	●	●	●	●
EXOfos PT-E	●	●	●	●

● soluble ● insoluble ● partially soluble

ROSULfan E

ROSULfan E is an anionic, low foaming surfactant of the alkyl sulphates group. The product is an aqueous solution of the sodium salt of 2-ethylhexyl sulphate. The product is a specialised anionic surfactant, combining several unique features, the synergy of which is extremely important for the desired features of the final formulations.

ROSULfan E has excellent stability in alkaline and acidic environments, which makes it perfect for use in many industrial formulations. The product is successfully applied in the production of industrial

and domestic highly alkaline cleaning agents and acidic preparations used for cleaning metal. A very important advantage of this product is the low gelation tendency in electrolyte solutions. This eliminates problems associated with a local increase in viscosity, e.g. in dispensing systems. The product is also used in the textile industry as a wetting agent in cotton bleaching processes and during the mercerisation process. Due to the high resistance to alkalis and low foaming properties, it is a widely used component of professional preparations in the industrial and institutional cleaning segments.

Additional information

Physicochemical parameters	ROSULfan E
CAS	126-92-1
Molecular weight, g/mol	approx. 232
Appearance at temperature (20÷25)°C	clear liquid
Colour (Hazen units) at (20÷25)°C	max.150
pH of 25% solution	9.0 ÷ 11.0
Active substance, % (m/m)	38 ÷ 42
Sodium sulphate (VI), % (m/m)	max.1.5
Unsulphated substances, % (m/m)	max.2
Solidification point, °C	approx. –5
Water, % (m/m)	approx. 60
Density at 20 °C, g/mL	approx. 1.10

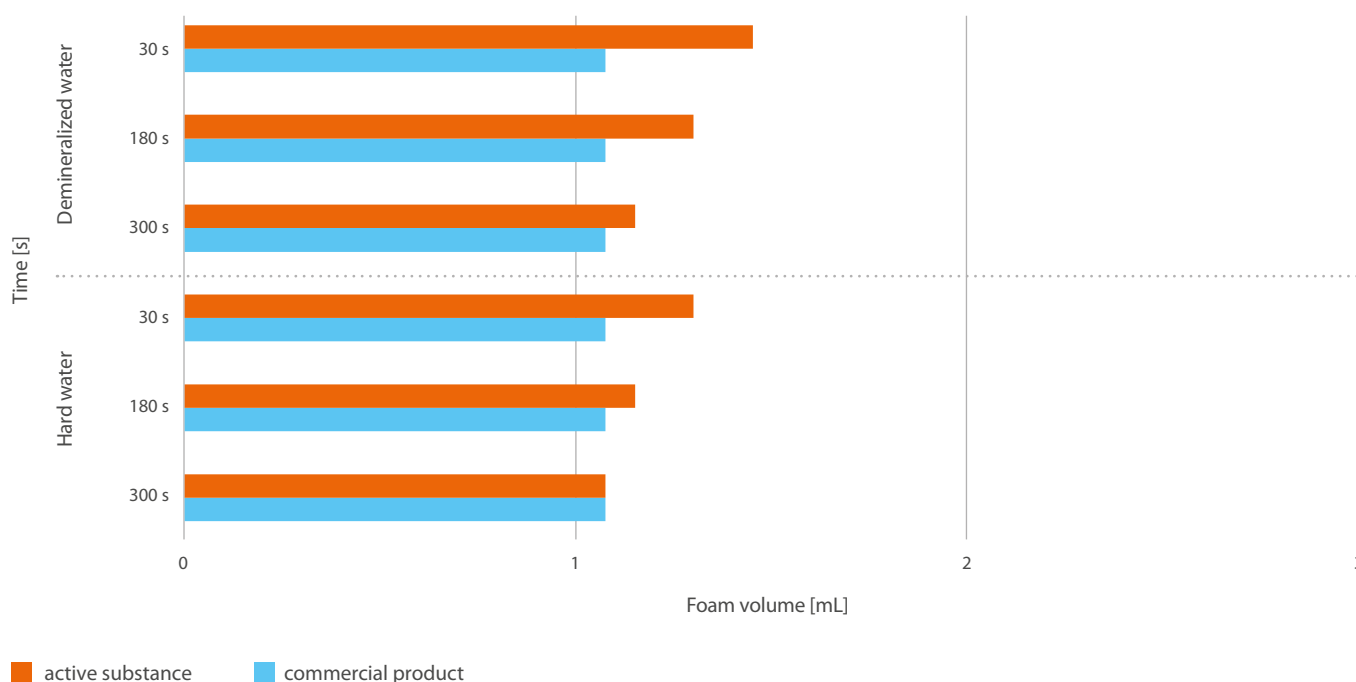


Foam capability

Foam is a heterogeneous system in which the liquid is the continuous phase and the dispersed phase is gas. Foams, as well as emulsions, are thermodynamically unstable systems, so surfactant molecules on the interface are required to stabilize them. The ability to foam a substance is important in many industrial applications

including the detergents, where it prevents re-soil in the washing or cleaning processes. The determination of the foam capability was performed according to PN-ISO 696:1994 (the modified Ross-Miles method) at a temperature of 25°C, for a surfactant concentration of 1.0 g/L, both in demineralized water and hard water (17°d).

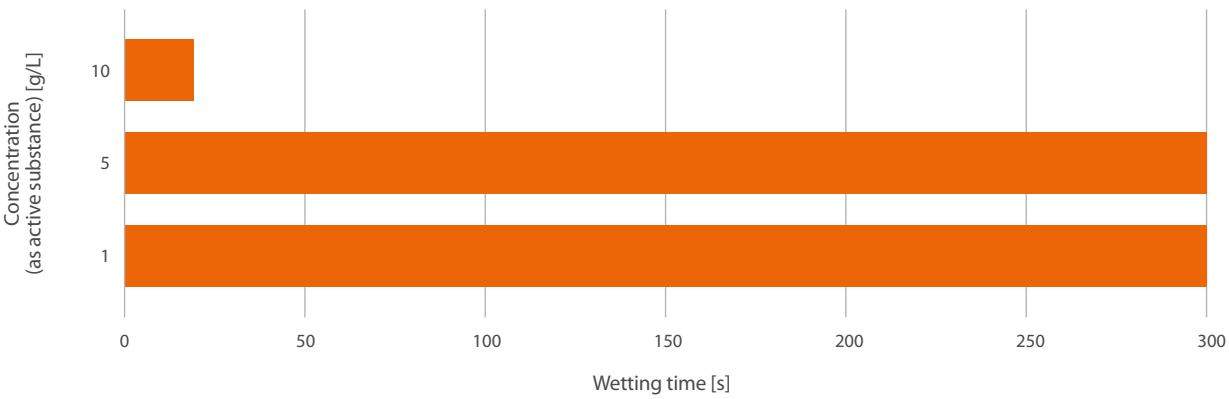
Foam stability of ROSULfan E (concentration 1.0 g/L, 25°C)



Wetting capability

The capability of wetting cotton fabric was determined in accordance to PN-EN 1772:2001.

Wetting capability of ROSULfan E (20°C with demineralized water)



Alkali and acid resistance

Surfactants used in industrial cleaning have to be resistant to strong acids or alkalis. Acidic cleaning agents are mainly applied to remove mineral deposits from acid-resistant surfaces, while alkaline agents are known primarily for their remarkable degreasing

ability. ROSULfan E is featured with excellent stability in the presence of acids and alkalis solutions.

The analysis of stability for ROSULfan E has been performed in accordance with the PN-EN 14712:2005.



Alkaline resistance

NaOH con. [g/L]	10	50	100	120	130	140
Product name						
ROSULfan E	●	●	●	●	○	○

KOH con. [g/L]	10	50	100	120	130	140
Product name						
ROSULfan E	●	●	●	●	●	○

○ macroscopic phase separation ● clear, homogeneous solution ● homogeneous, opalescent solution

Acid resistance

H ₂ SO ₄ con. [mL/L]	1	50	100	150	200	225
Product name						
ROSULfan E	●	●	●	●	●	●

HCl con. [mL/L]	1	50	100	150	200	225
Product name						
ROSULfan E	●	●	●	●	●	●

○ macroscopic phase separation ● clear, homogeneous solution ● homogeneous, opalescent solution

Solubility

The solubility of ROSULfan E in water and other solvents is shown in the table below.

Product name	Demineralized water	Methanol	Acetone	Ethyl ether
ROSULfan E	●	●	●	●

● soluble ● insoluble ● partially soluble

Solubilizing properties

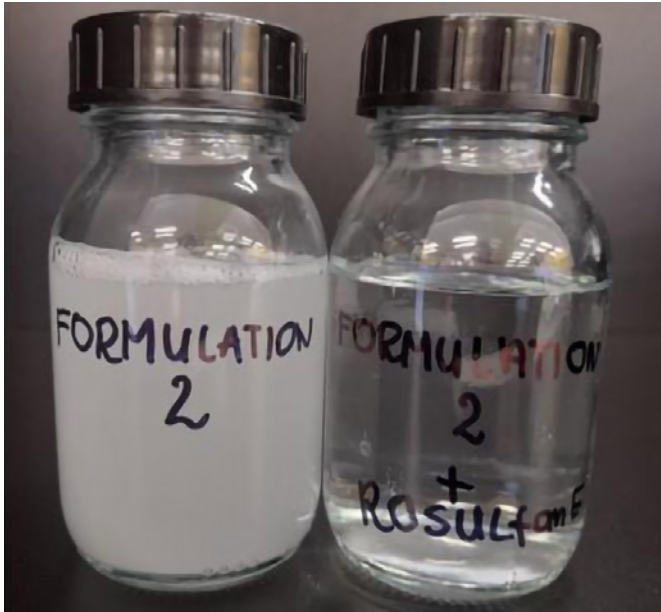
ROSULfan E is particularly stable against alkaline solutions in which the content of e.g. sodium hydroxide is already too high for nonionic alkoxyated products. This causes turbidity and even phase separation of the formulation. However, the addition of ROSULfan E dramatically changes the appearance of the product, it becomes completely clear.

This is because this anionic surfactant improves the stability of the final formulation. Moreover, the combination of ROSULfan E with a low foaming product, which is a non-ionic alkoxyate, does not change the foaming of the finished formulation during its use. The compositions of the tested mixtures are presented below.

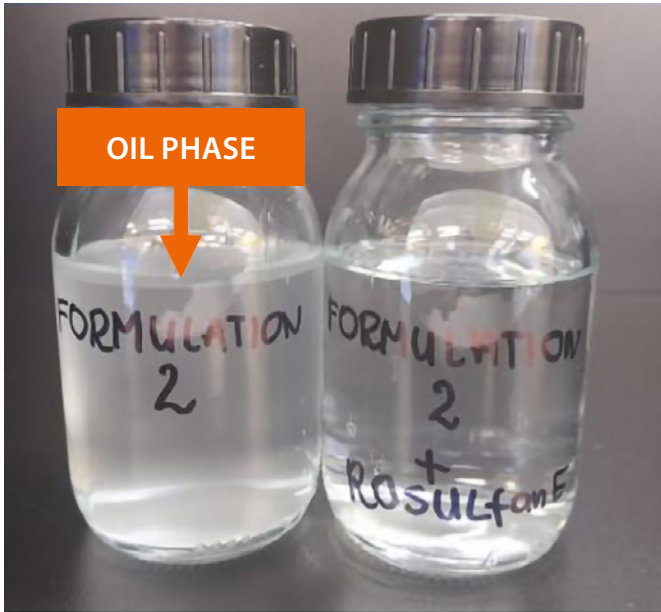
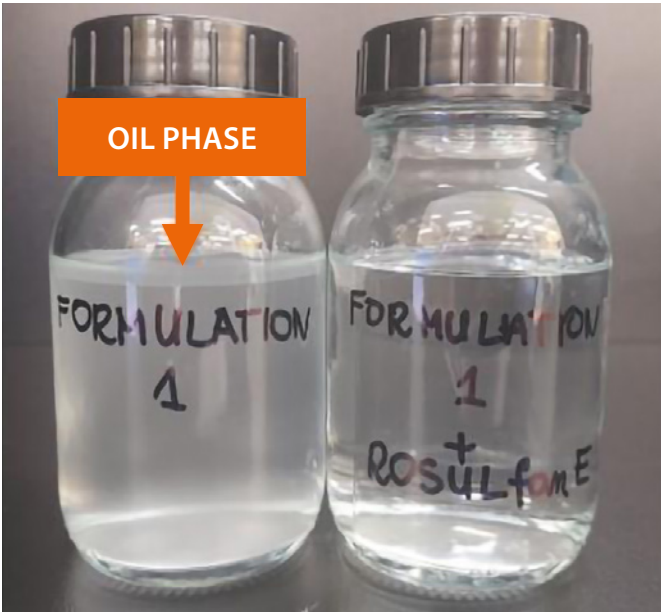
	Formulation 1	Formulation 1 + ROSULfan E
	Concentrations, %	
ROKAnol LP3135	1.5	1.5
ROSULfan E	-	10
NaOH, 50% solution	10	10
Water	up to 100	up to 100

	Formulation 2	Formulation 2 + ROSULfan E
	Concentrations, %	
ROKAnol LP3135	1.5	1.5
ROSULfan E	-	10
NaOH, 50% solution	10	10
Water	up to 100	up to 100

Appearance of the test samples after mixing



Appearance of the test samples after 1 day



ROKAnol Series

Comparison of selected products of the ROKAnols Series

ROKAnols are non-ionic surfactants that belong to the group of alkoxyate fatty alcohols. Below there is a comparison of application properties for ethoxylated surfactants, taking into account different lengths of carbon chains of fatty alcohols and the same degrees of ethoxylation (if present in a given product group).

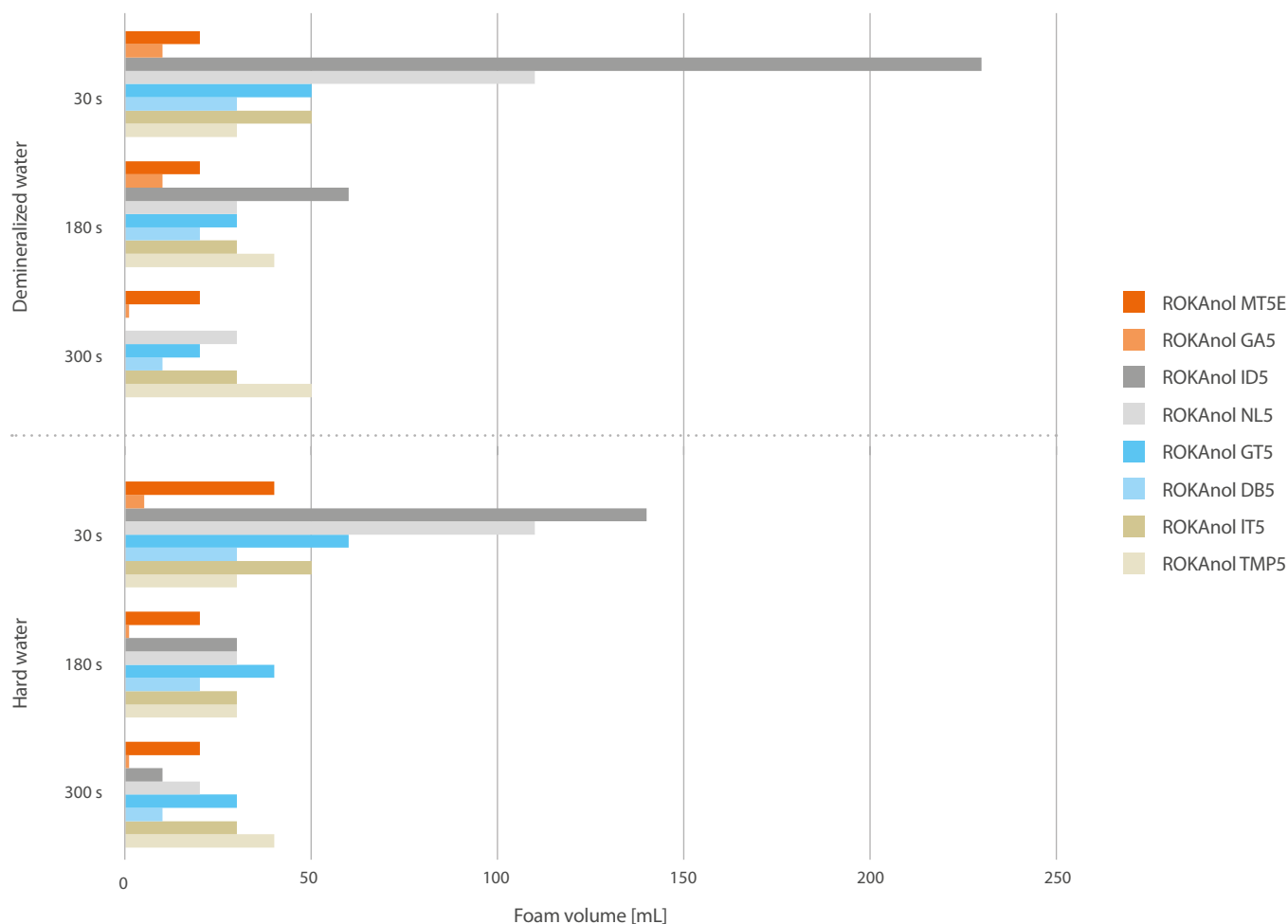
- **ROKAnol MT5E** and **ROKAnol MT7E** – C8-C18 alcohol, ethoxylated
- **ROKAnol GA5** and **ROKAnol GA7** – C10 alcohol (Guerbet alcohol), ethoxylated
- **ROKAnol ID5** and **ROKAnol ID7** – C9-C11 alcohol, C10 rich, ethoxylated
- **ROKAnol NL5** and **ROKAnol NL7** – C9-C11 alcohol, ethoxylated
- **ROKAnol GT5** and **ROKAnol GT7** – C9-C16 alcohol, ethoxylated
- **ROKAnol L7** – C12-14 alcohol, ethoxylated
- **ROKAnol DB5** and **ROKAnol DB7** – C12-C15 alcohol, ethoxylated
- **ROKAnol IT5** and **ROKAnol IT7** – C13 alcohol, branched, ethoxylated
- **ROKAnol TMP5** and **ROKAnol TMP7** – C13-C15 alcohol, ethoxylated

Foam capability

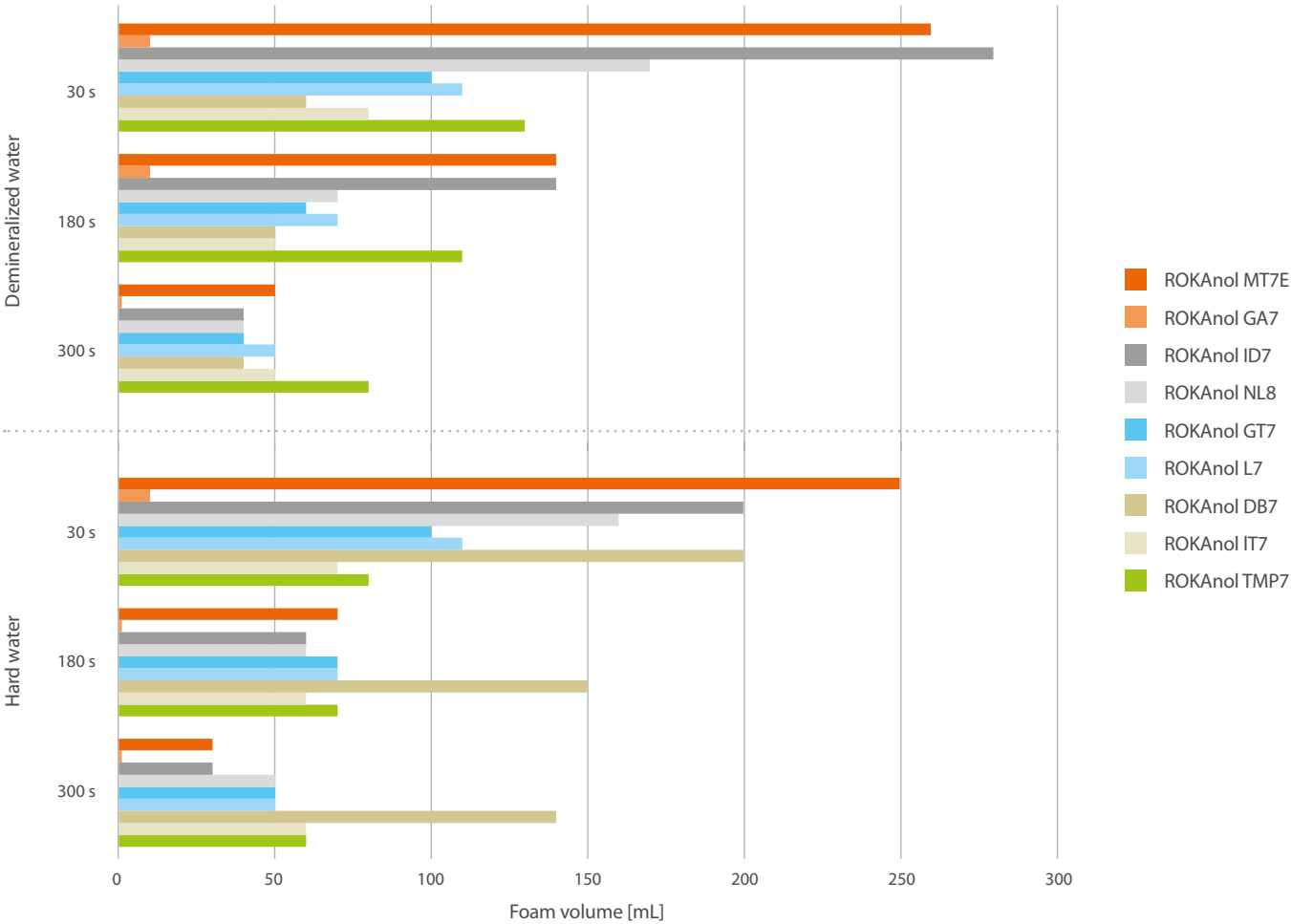
The determination of the foam capability was performed according to PN-ISO 696:1994 (the modified Ross-Miles method) at a temperature of 25°C, for a surfactant concentration of 1.0 g/L,

in both demineralized and hard (17°d) water. The foam stability results of selected ROKAnols Series are shown on the graph below.

Foam capability (5EO)



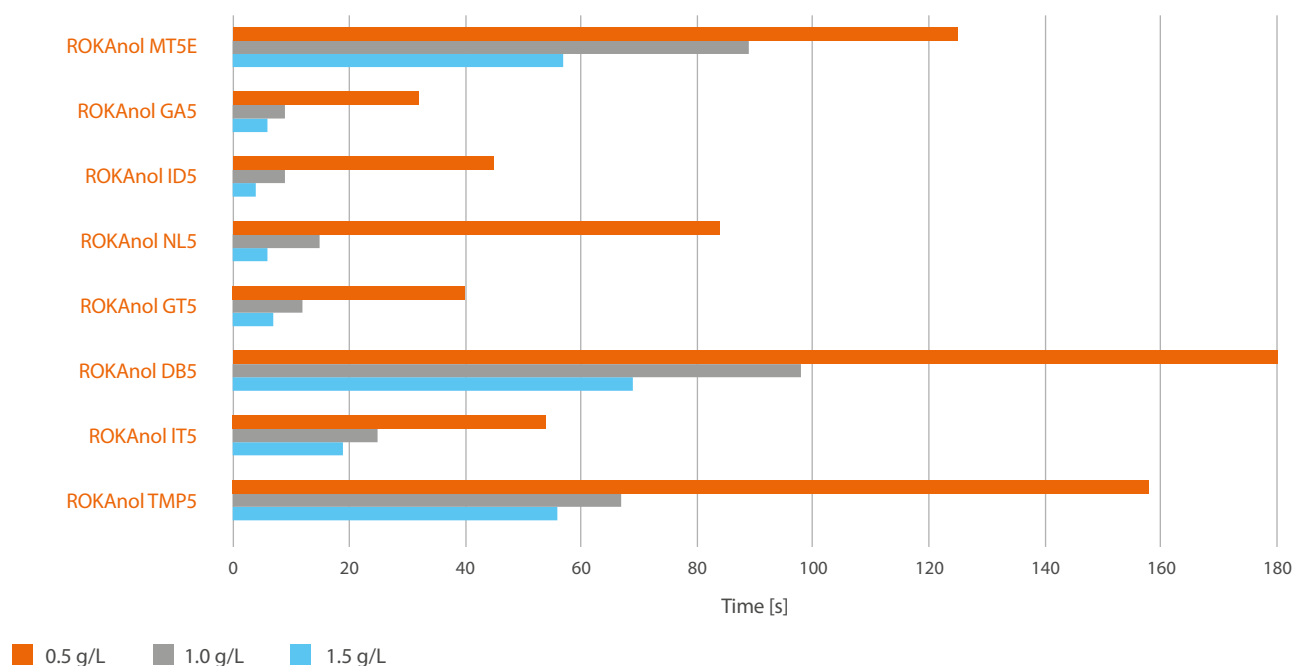
Foam capability (7EO)



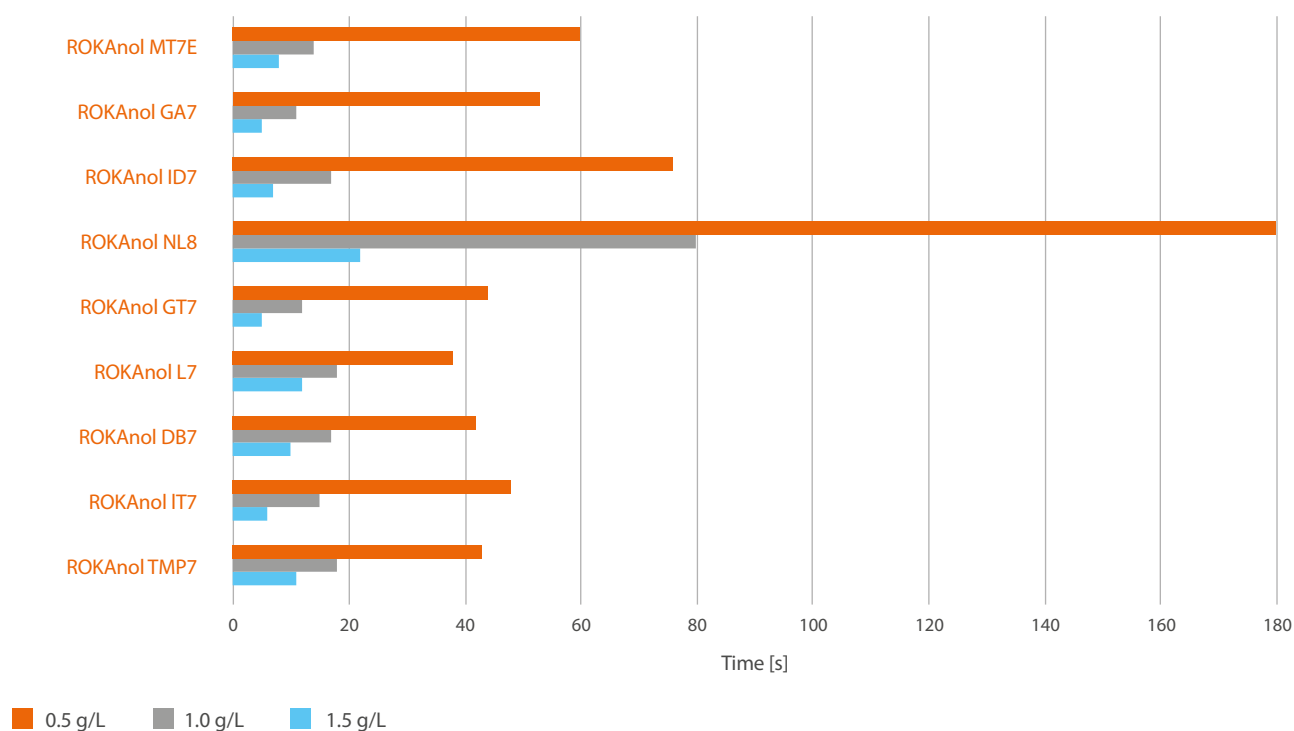
Wetting capability

The capability of wetting cotton fabric was determined in accordance with PN-EN 1772:2001. The wetting capability results are shown on the graphs below.

Wetting capability (5EO)



Wetting capability (7EO)



Alkali and acid resistance

The physical stability of surface active agents over a specified time, in acidic/alkaline environment, is the maximum concentration of acid/base (g/L), at which the surfactant can be dissolved in an acidic/alkaline solution with a concentration of 1% to form

a stable solution. Stability is determined by evaluating the appearance of solutions. The analysis of such stability of products has been performed in accordance with the PN-EN 14712:2005.



Alkali resistance

NaOH con. [g/L] Product name	10	20	30	40	50	60	70	80	90
ROKAnol MT5E	●	●	●	●	●	○			
ROKAnol MT7E	●	●	●	●	●	○			
ROKAnol GA5	●	●	○						
ROKAnol GA7	●	●	●	●	●	○			
ROKAnol ID5	●	●	○						
ROKAnol ID7	●	●	●	●	●	●	○		
ROKAnol NL5	●	●	○						
ROKAnol NL8	●	●	●	●	●	●	●	○	
ROKAnol GT5	●	●	●	●	●	●	○		
ROKAnol GT7	●	●	●	○					
ROKAnol L7	●	●	●	●	●	●	●	●	○
ROKAnol DB5	●	○							
ROKAnol DB7	●	●	●	●	○				
ROKAnol IT5	○								
ROKAnol IT7	○								
ROKAnol TMP5	○								
ROKAnol TMP7	●	●	●	●	●	●	○		

○ macroscopic phase separation ● homogeneous, cloudy solution ● clear, homogeneous solution ● homogeneous, opalescent solution

Acid resistance

Product name \ H ₂ SO ₄ con. [mL/L]	1	10	20	30	100	120	140	225
ROKAnol MT5E	●	●	●	●	●	●	●	●
ROKAnol MT7E	●	●	●	●	●	●	●	●
ROKAnol GA5	●	●	●	●	●	●	●	●
ROKAnol GA7	●	●	●	●	●	●	●	●
ROKAnol ID5	●	●	●	●	●	●	●	●
ROKAnol ID7	●	●	●	●	●	●	●	●
ROKAnol NL5	●	●	●	●	●	●	●	●
ROKAnol NL8	●	●	●	●	●	●	●	●
ROKAnol GT5	●	●	●	●	●	●	●	●
ROKAnol GT7	●	●	●	●	●	●	●	●
ROKAnol L7	●	●	●	●	●	●	●	○
ROKAnol DB5	○	○	○	○	○	○	○	○
ROKAnol DB7	●	●	●	●	●	●	●	●
ROKAnol IT5	○	○	○	○	○	○	○	○
ROKAnol IT7	○	○	○	○	○	○	○	○
ROKAnol TMP5	○	○	○	○	○	○	○	●
ROKAnol TMP7	●	●	●	●	●	●	●	●

○ macroscopic phase separation ● homogeneous, cloudy solution ● clear, homogeneous solution ● homogeneous, opalescent solution

Solubility

Product name	Demineralized water	Methanol	Acetone	Ethyl ether
ROKAnol MT5E	●	●	●	●
ROKAnol MT7E	●	●	●	●
ROKAnol GA5	●	●	●	●
ROKAnol GA7	●	●	●	●
ROKAnol ID5	●	●	●	●
ROKAnol ID7	●	●	●	●
ROKAnol NL5	●	●	●	●
ROKAnol NL8	●	●	●	●
ROKAnol L7	●	●	●	●
ROKAnol GT5	●	●	●	●
ROKAnol GT7	●	●	●	●
ROKAnol DB5	●	●	●	●
ROKAnol DB7	●	●	●	●
ROKAnol IT5	●	●	●	●
ROKAnol IT7	●	●	●	●
ROKAnol TMP5	●	●	●	●
ROKAnol TMP7	●	●	●	●

● soluble ● insoluble ● partially soluble

Capillarity of textile materials

Nonionic surfactants are widely used in textile industry for various purposes. Their function deals mainly which proper wetting process of fiber and fabric what influences the improvement in dye sorption and adhesive properties of fiber. Additionally, surfactants are responsible for emulsification and dispersing processes. They improve the resistance to abrasion, removing natural impurities and those generated during processing fiber. At the same time they

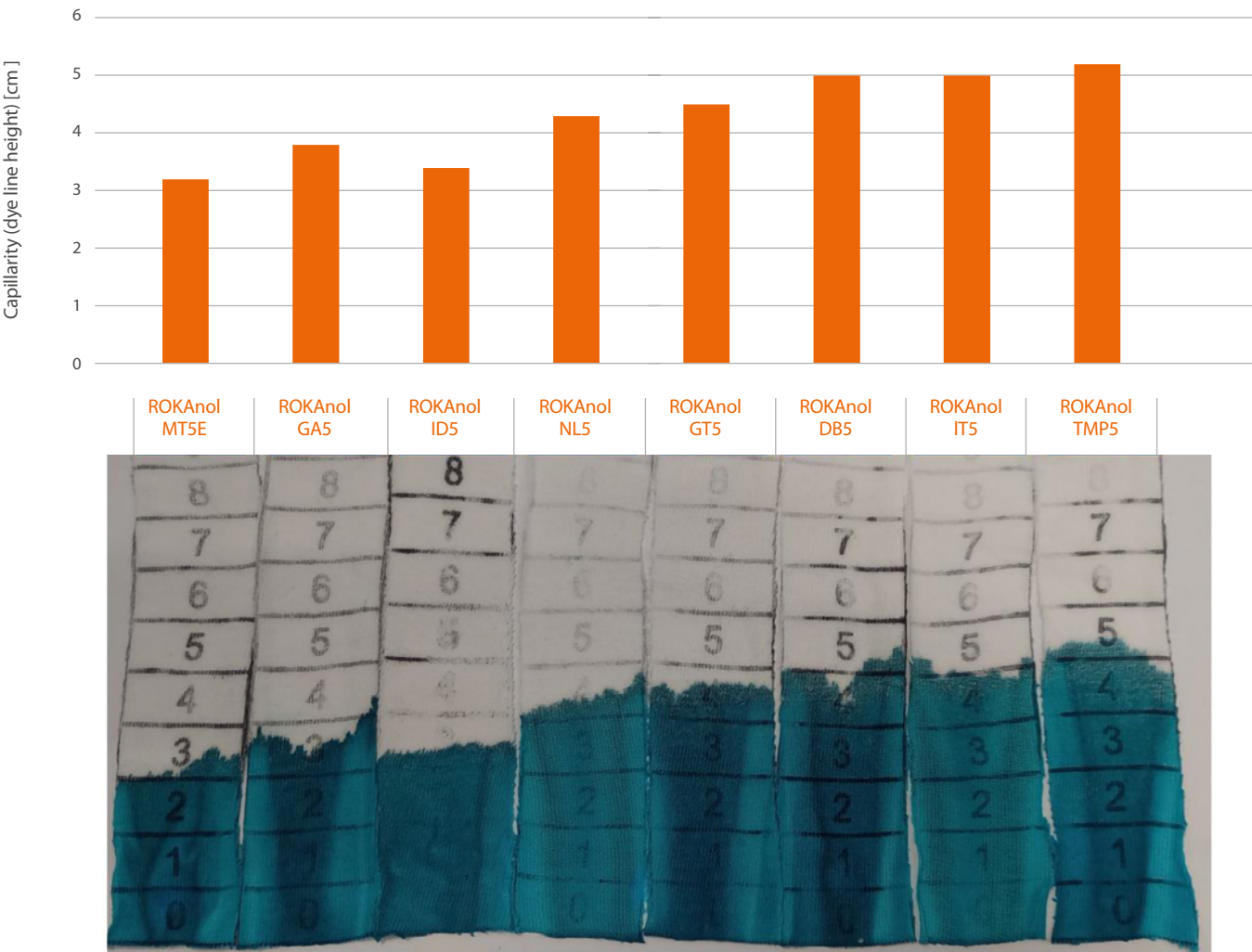
improve the wash fastness of the dye in fiber. One of the methods to estimate surfactants effectiveness is performing the capillarity test. First, tested material (100% combed cotton, weave left-right single bearing, area weight of 150 g/m²) is pretreated with bleaching solution (composition showed in table below). The process is performed at 95° (for 45 minutes. Next, the specimen is rinsed in cold water and neutralized with acetic acid solution.

Ingredient	Content, %
Wetting agent (ROKAnols)	0.2
Sodium hydroxide (solid)	0.3
Hydrogen peroxide (30% solution)	0.5
Demineralized water	99.0

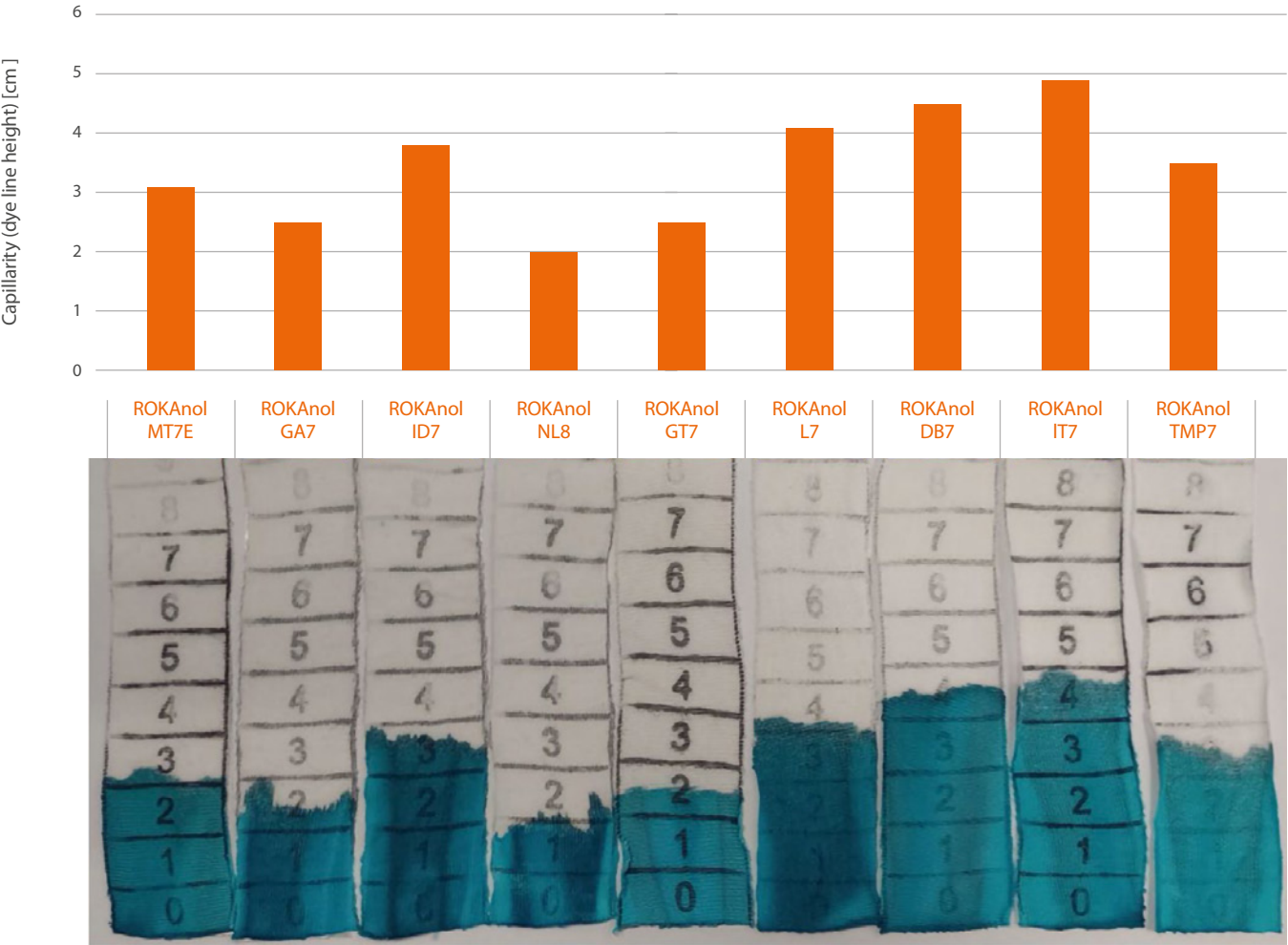
To evaluate capillarity, dried raw cotton knitted after the bleaching process, with the scale printed on is positioned vertically and placed in dye solution (aqueous solution of 2% helactine turquoise).

The height of its ascent is measured after one minute. The test is performed for three independently prepared specimens. The results are shown on the graphs below.

Capillarity test (5EO)



Capillarity test (7EO)

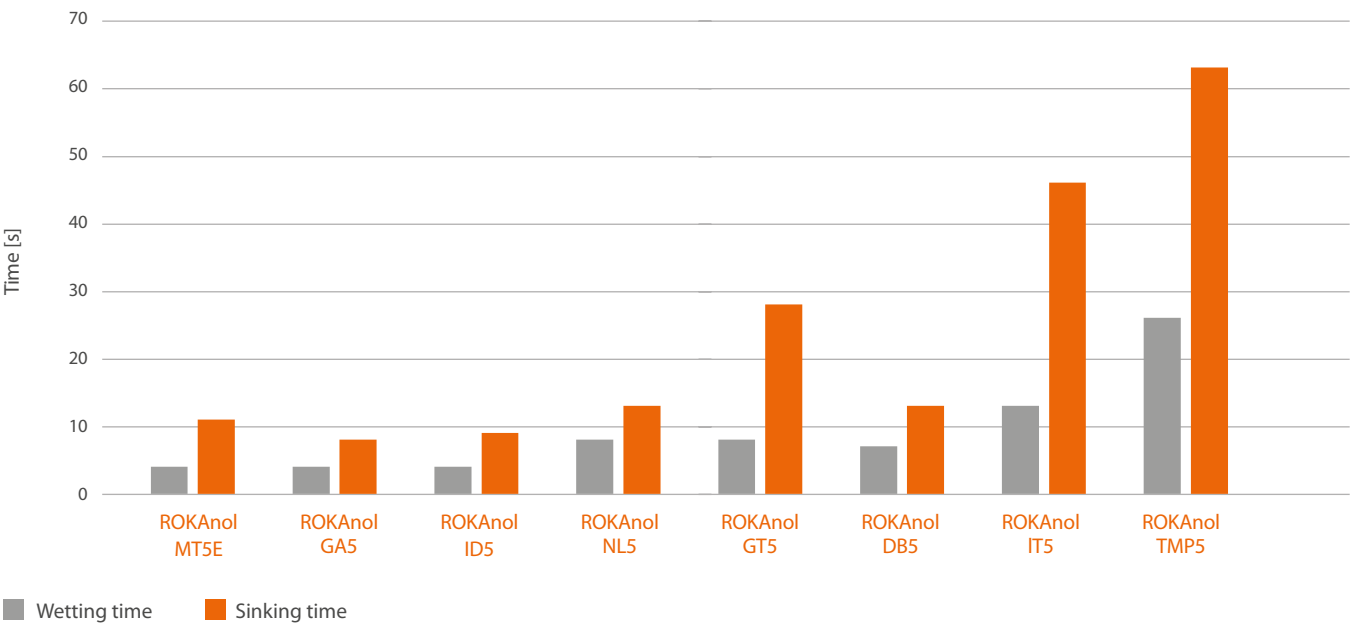


Wetting and sinking test

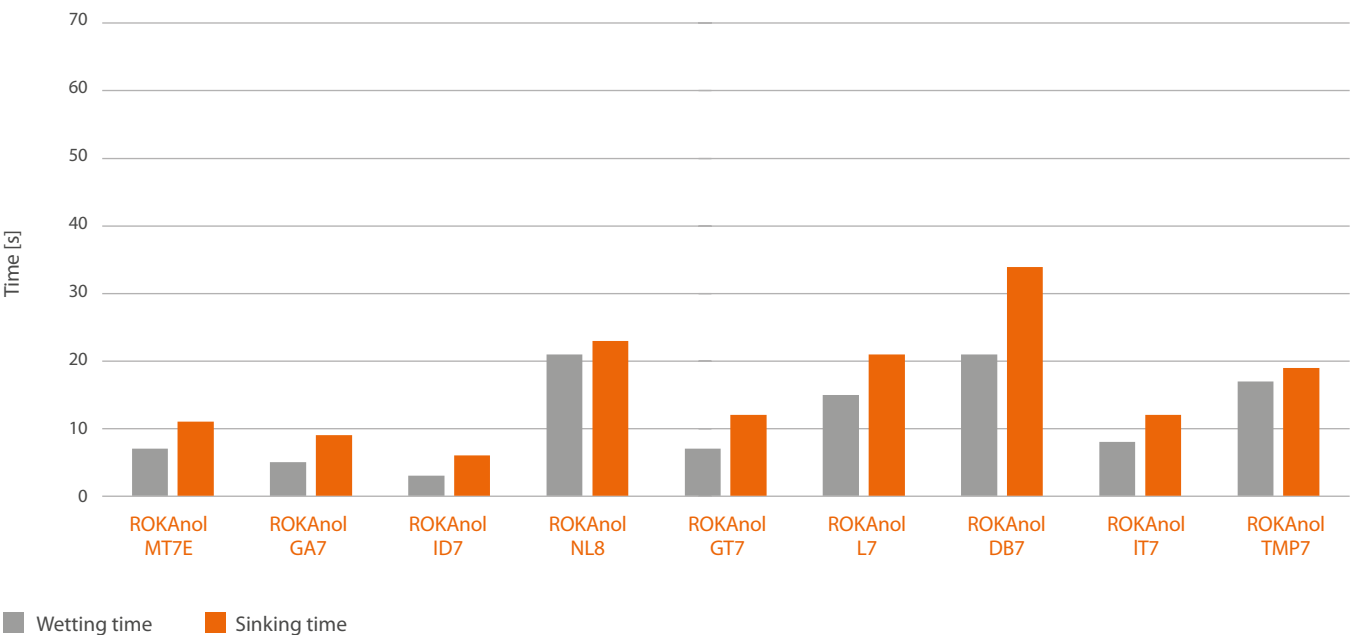
In the textile industry, an important parameter is the assessment of the wetting capacity of a cotton disc (raw knitted cotton) and the determination of the time of sinking of this disc in an aqueous solution of surface-active raw materials. The test was performed at 50°C, pH 11, using a surfactant concentration of 1 g/L, solution

volume – 500 mL. The prepared discs are thrown onto the surface of the tested solution, where first the wetting time of the fabric, and then the time in which the tested disc sinks is measured. The results are shown below.

Capillarity test (5EO)



Capillarity test (7EO)

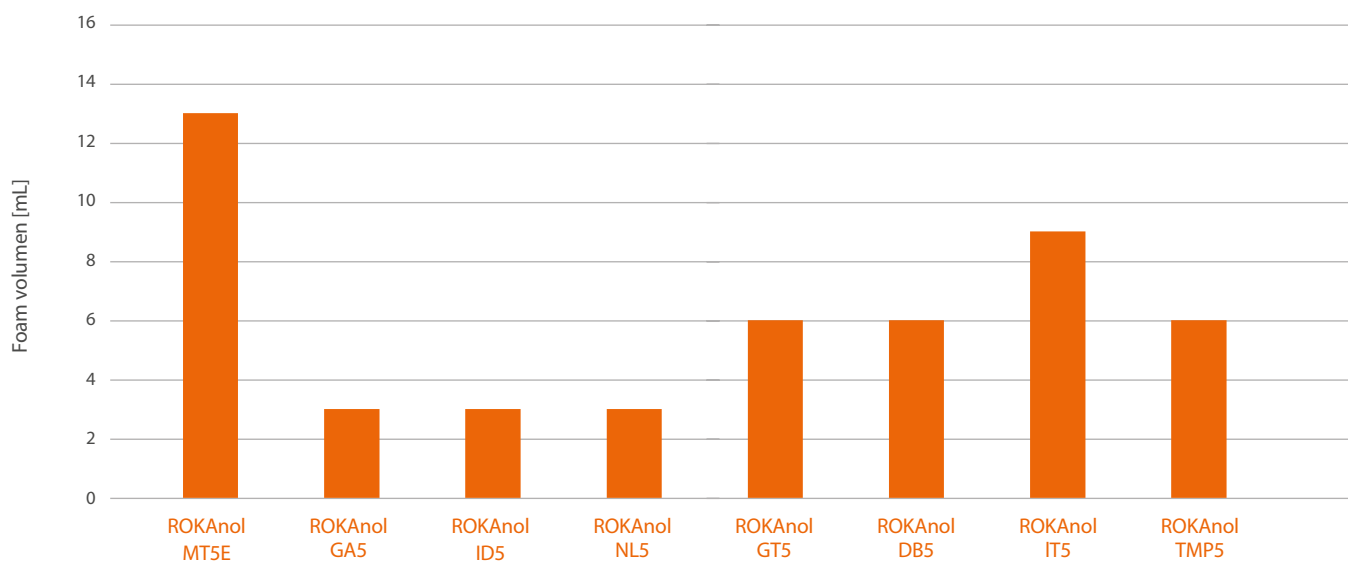


Foam test

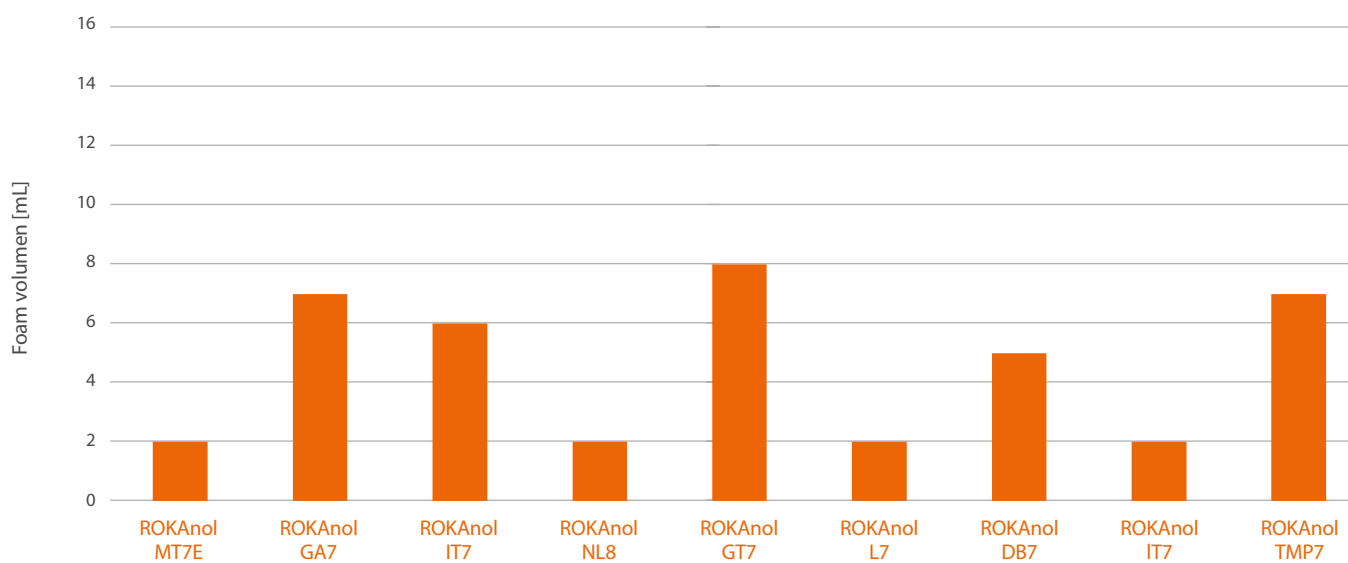
The levels of foam generated by the surfactant in an aqueous solution after shaking it in a cylinder 10 times were tested. The test was carried out at 50°C, pH 11, using a surfactant

concentration of 1 g/L, solution volume – 50 mL. The measurement time was 1 minute. The results are shown below.

Foam test (5EO)



Foam test (7EO)



ROKAnol LP Series and other low foaming ROKAnols

Comparison of selected products of the ROKAnols LP Series and other low foaming ROKAnols

ROKAnols are low foaming, non-ionic surfactants that belong to the group of alkoxylate fatty alcohols. Below there is a comparison of application properties for ethoxylated and propoxylated surfactants, taking into account different lengths of carbon chains of fatty alcohols. ROKAnols from low foaming range exhibit desired properties like good detergency, efficient wettability, degreasing abilities. The difference between ROKAnols and standard non-ionic surfactants is in their low foaming capacity. Due to that, these products can be used in many application where foam is problematic.

- **ROKAnol NL8P4** – C9-C11 alcohol, EO/PO
- **ROKAnol LP3135** – C9-C11 alcohol, ethoxylated
- **ROKAnol L5P5** – C12-14 alcohol, EO/PO
- **ROKAnol LP27** – C12-14 alcohol, EO/PO
- **ROKAnol LP200** – Isodecyl alcohol, EO/PO
- **ROKAnol LP400** – Isodecyl alcohol, EO/PO
- **ROKAnol LP700** – Isotridecyl alcohol, EO/PO
- **ROKAnol LP2126** – C16-C18 alcohol, EO/PO
- **ROKAnol RZ4P11** – C16-C18 alcohol, EO/PO
- **ROKAnol LP2855** – C12-18 alcohol, EO/PO
- **ROKAnol LP2227** – 2-Propylheptanol, EO/PO

Foam capability

The determination of the foam capability was performed according to PN-ISO 696:1994 (the modified Ross-Miles method) at a temperature of 25°C, for a surfactant concentration of 1.0 g/L,

in both demineralized and hard (17°d) water. The foaming stability results of selected ROKAnols Series are shown in the table below.

Foam value [mL]	Description
100–200	moderate
70–100	low
20–70	poor
0–20	non



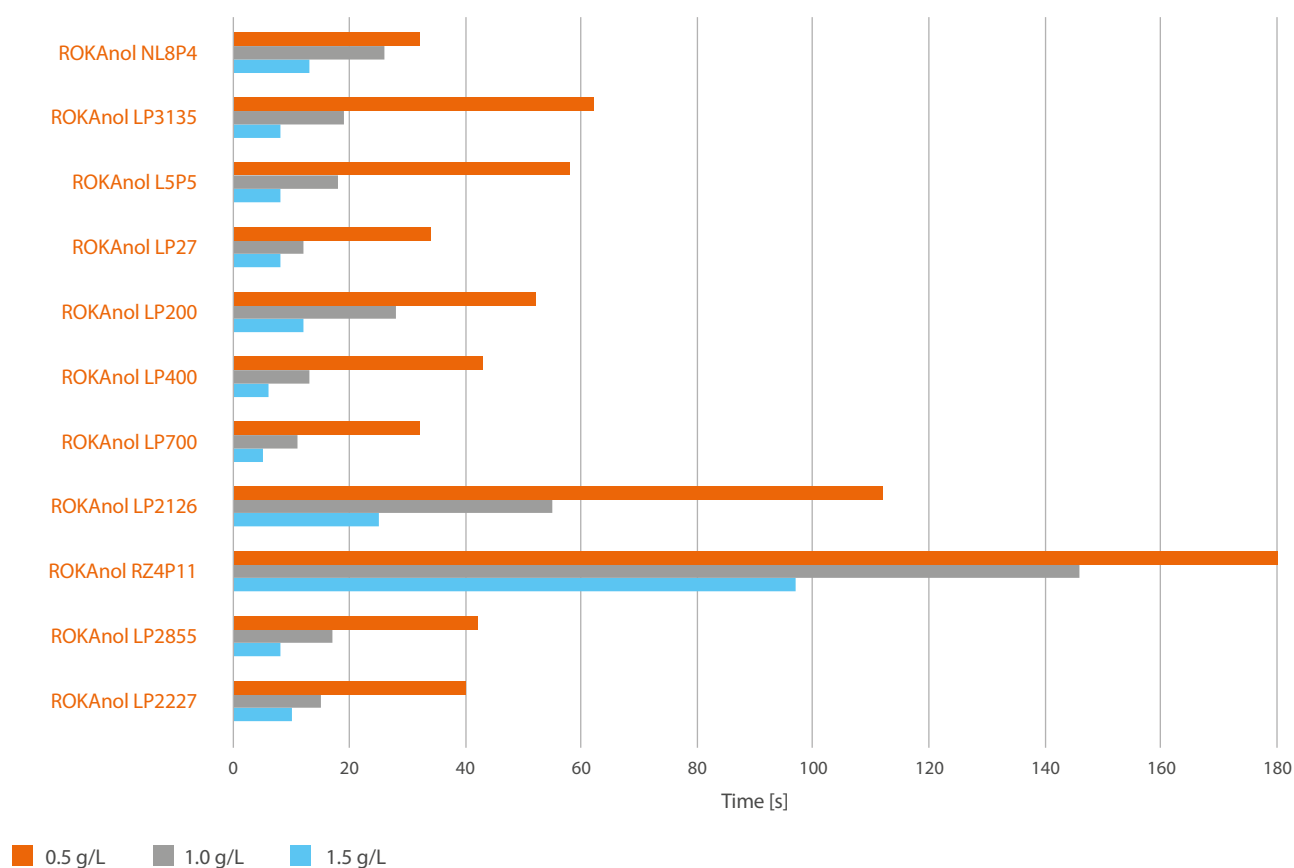
Foam capability

ROKAnols	Demineralized water	Hard water
ROKAnol NL8P4	poor	non
ROKAnol LP3135	non	non
ROKAnol L5P5	poor	poor
ROKAnol LP27	poor	poor
ROKAnol LP200	non	non
ROKAnol LP400	poor	poor
ROKAnol LP700	moderate	moderate
ROKAnol LP2126	non	non
ROKAnol RZ4P11	non	non
ROKAnol LP2855	poor	poor
ROKAnol LP2227	non	non

Wetting capability

The capability of wetting cotton fabric was determined in accordance to with PN-EN 1772:2001.

The wetting capability results are shown on the graphs below.



Alkali resistance

NaOH con. [g/L]	10	20	30	40
Product name				
ROKAnol NL8P4	●	●	●	○
ROKAnol LP3135	●	●	○	
ROKAnol L5P5	○			
ROKAnol LP27	○			
ROKAnol LP200	○			
ROKAnol LP400	○			
ROKAnol LP700	○			
ROKAnol LP2126	○			
ROKAnol RZ4P11	○			
ROKAnol LP2855	●	○		
ROKAnol LP2227	●	●		

○ macroscopic phase separation ● clear, homogeneous solution

Acid resistance

H ₂ SO ₄ con. [mL/L]	1	10	20	30	100	120	140	225
Product name								
ROKAnol NL8P4	●	●	●	●	●	●	●	●
ROKAnol LP3135	●	●	●	●	●	●	●	●
ROKAnol L5P5	●	●	●	●	●	●	●	●
ROKAnol LP27	●	●	●	●	●	●	●	●
ROKAnol LP200	○	○	○	○	○	○	○	○
ROKAnol LP400	●	●	●	●	●	●	●	●
ROKAnol LP700	○	○	○	○	○	○	○	○
ROKAnol LP2126	●	●	●	●	●	●	●	●
ROKAnol RZ4P11	○	○	○	○	○	○	○	○
ROKAnol LP2855	●	●	●	●	●	●	●	●
ROKAnol LP2227	●	●	●	●	●	●	●	●

○ macroscopic phase separation ● clear, homogeneous solution

Solubility

Product name	Demineralized water	Methanol	Acetone	Ethyl ether
ROKAnol NL8P4	●	●	●	●
ROKAnol LP3135	●	●	●	●
ROKAnol L5P5	●	●	●	●
ROKAnol LP27	●	●	●	●
ROKAnol LP200	●	●	●	●
ROKAnol LP400	●	●	●	●
ROKAnol LP700	●	●	●	●
ROKAnol LP2126	●	●	●	●
ROKAnol RZ4P11	●	●	●	●
ROKAnol LP2855	●	●	●	●
ROKAnol LP2227	●	●	●	●

● soluble ● insoluble ● partially soluble



Capillarity of textile materials

Nonionic surfactants are widely used in textile industry for various purposes. Their function deals mainly with proper wetting process of fiber and fabric which influences the improvement in dye sorption and adhesive properties of fiber. Additionally, surfactants are responsible for emulsification and dispersing processes. They improve the resistance to abrasion, removing natural impurities and those generated during processing fiber. At the same time they

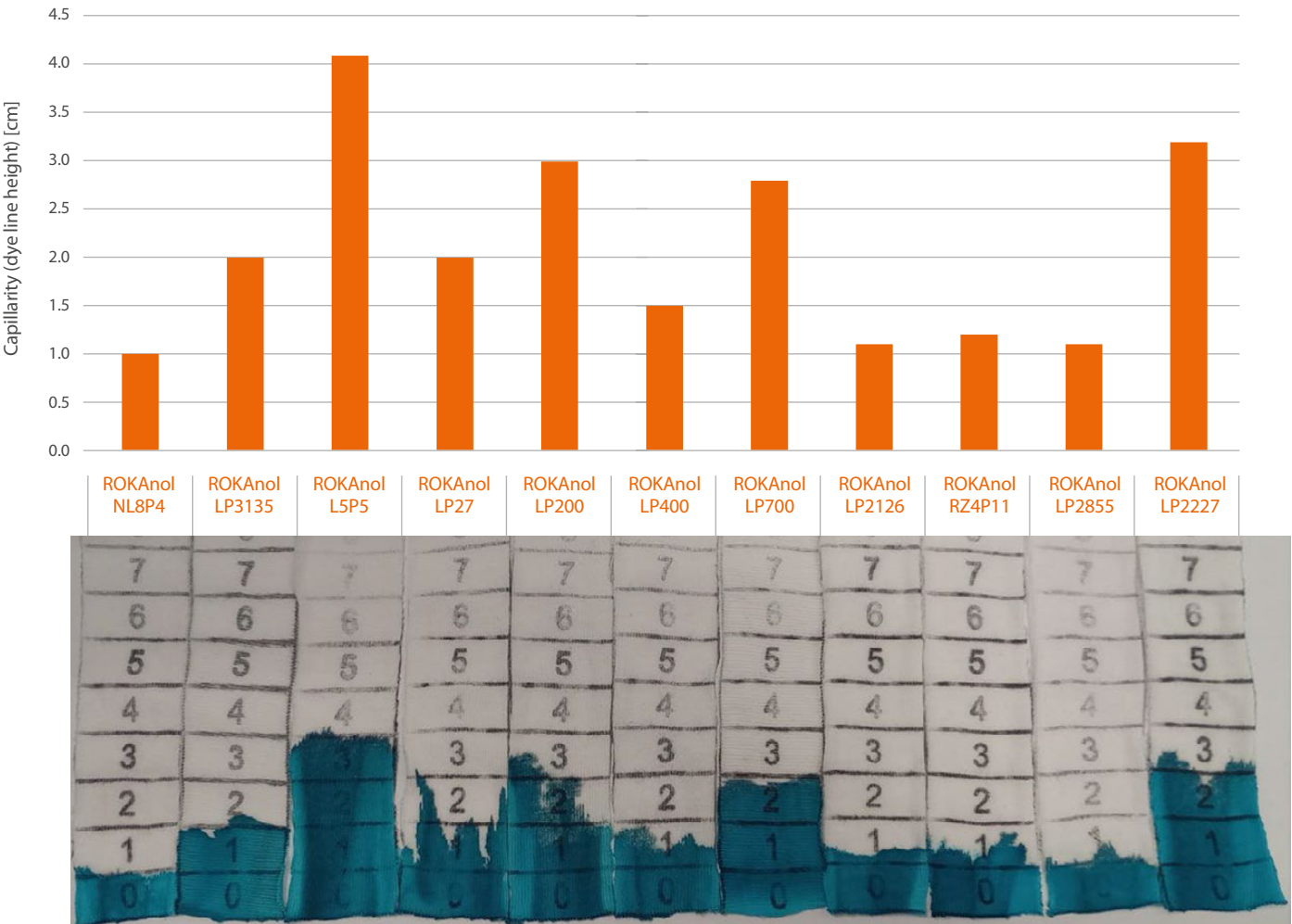
improve the wash fastness of the dye in fiber. One of the methods to estimate surfactants effectiveness is performing the capillarity test. First, tested material (100% combed cotton, weave left-right single bearing, area weight of 150 g/m²) is pretreated with bleaching solution (composition showed in table below). The process is performed at 95°C for 45. Next, the specimen is rinsed in cold water and neutralized with acetic acid solution.

Ingredient	Content, %
Wetting agent (ROKAnols)	0.2
Sodium hydroxide (solid)	0.3
Hydrogen peroxide (30% solution)	0.5
Demineralized water	99.0

To evaluate capillarity, dried raw cotton knitted after the bleaching process, with the scale printed on, is positioned vertically and placed in dye solution (aqueous solution of 2% helactine turquoise).

The height of its ascent is measured after one minute. Test is performed for three independently prepared specimens. The results are shown in the graphs below.

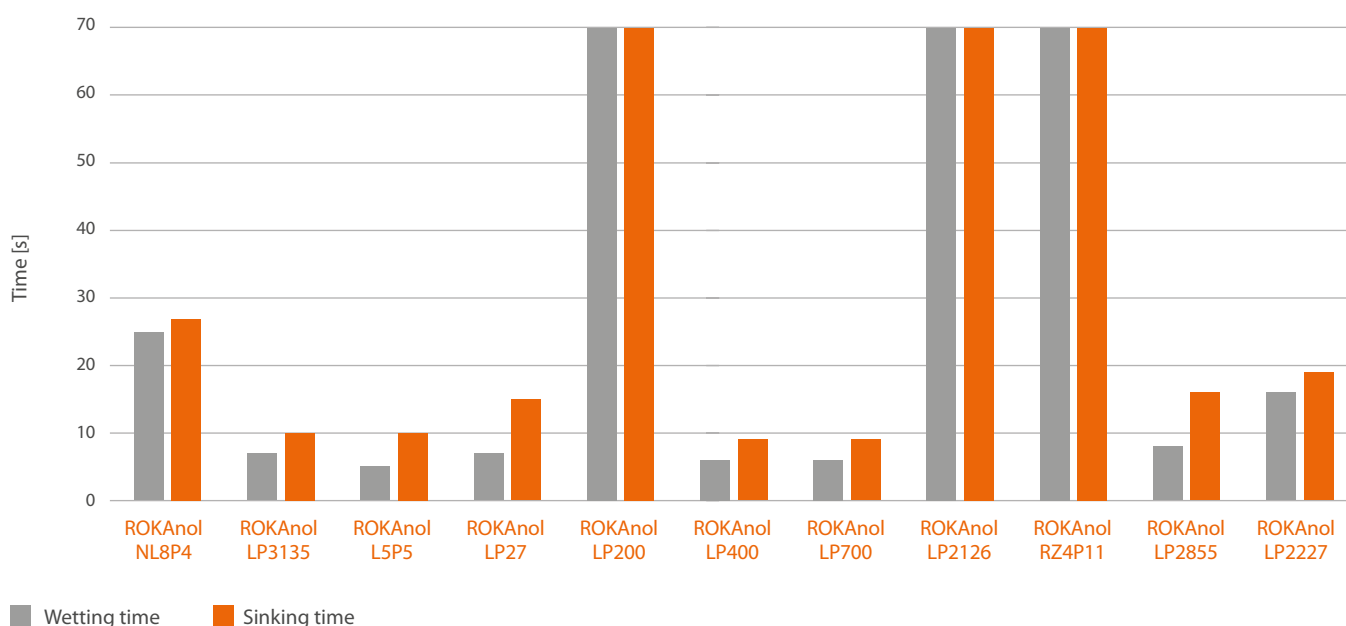
Capillarity test (5EO)



Wetting and sinking test

In the textile industry, an important parameter is the assessment of the wetting capacity of a cotton disc (raw knitted cotton) and the determination of the time of sinking of this disc in an aqueous solution of surface-active raw materials. The test was performed at 50°C, pH 11,

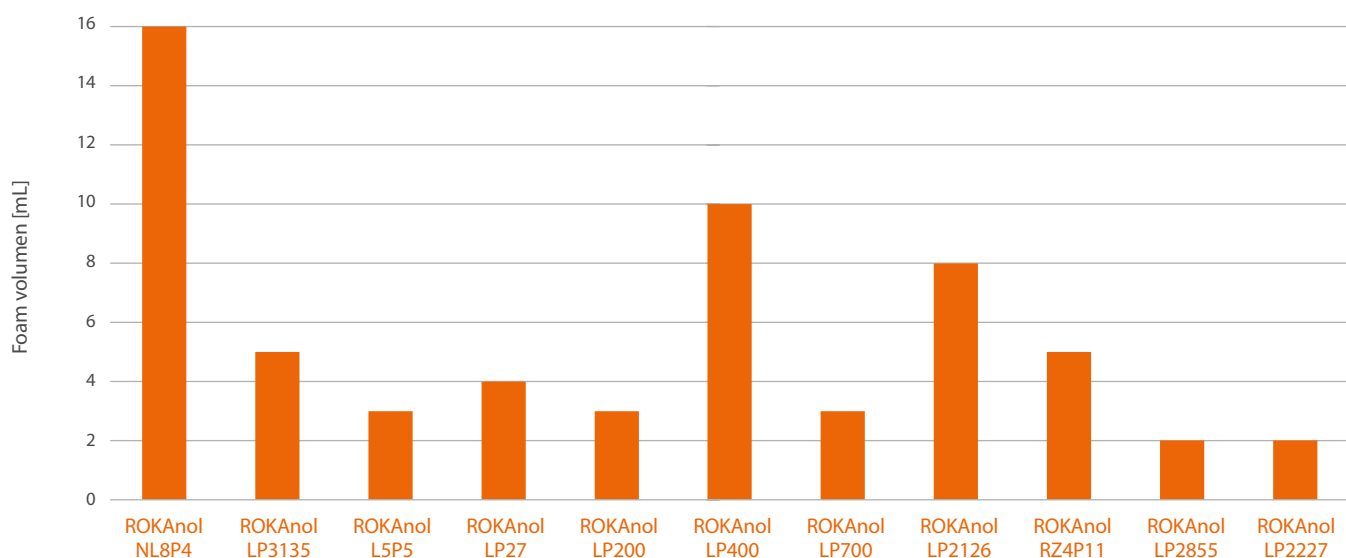
using a surfactant concentration of 1 g/L, solution volume – 500 mL. The prepared discs are thrown onto the surface of the tested solution, where first the wetting time of the fabric and then the time in which the tested disc sinks is measured. The results are shown below.



Foam test

The levels of foam generated by the surfactant in an aqueous solution after shaking it in a cylinder 10 times were tested. The test was carried out at 50°C, pH 11, using a surfactant

concentration of 1 g/L, solution volume – 50 mL. The measurement time was 1 minute. The results are shown below.



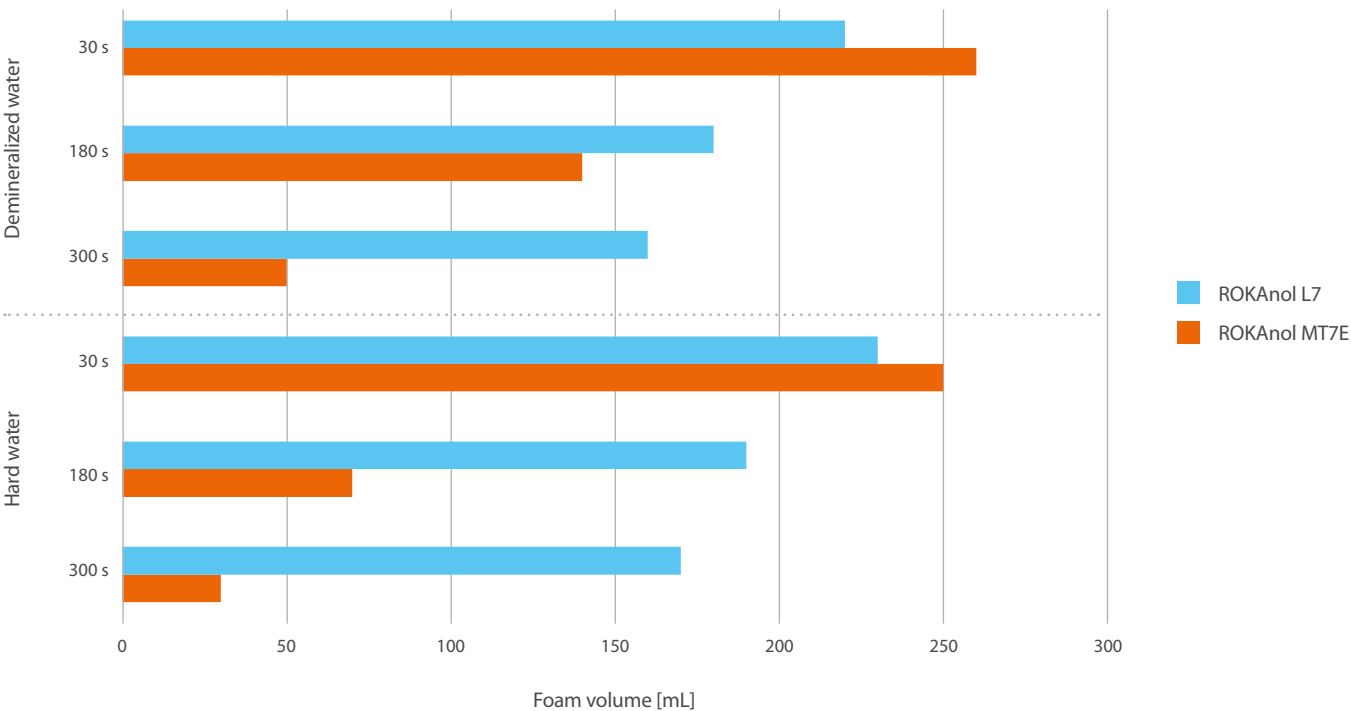
ROKAnol L7 vs ROKAnol MT7E

Physicochemical parameters	ROKAnol L7	ROKAnol MT7E
CAS	68439-50-9	68439-39-4
Chemical name	Laureth-7	Alcohols, C8-18, ethoxylated
Appearance at temperature (20 ÷ 25)°C	clear or slightly turbid liquid	clear or slightly turbid liquid
Colour (Hazen units) at 50°C	max.70	max.150
pH of 1 % solution	4.6 ÷ 7.4	(5%) 5 ÷ 8
Cloud point (aqueous solution), method A °C	57 ÷ 63	56 ÷ 62
Cloud point (aqueous solution), method B °C	41 ÷ 48	39 ÷ 45
Cloud point (aqueous solution), method C °C	30 ÷ 40	29 ÷ 35
Cloud point (aqueous solution), method D °C	78 ÷ 84	71 ÷ 78
Cloud point (aqueous solution), method E °C	76 ÷ 83	71 ÷ 77
Water, % (m/m)	max. 1.0	max. 1.0
Density at 20°C, g/mL	approx. 0.99	approx. 1.00
Viscosity at 25°C, cP	approx. 200	approx. 200
Freezing point, °C	approx. 12	approx. 12

Foam capability

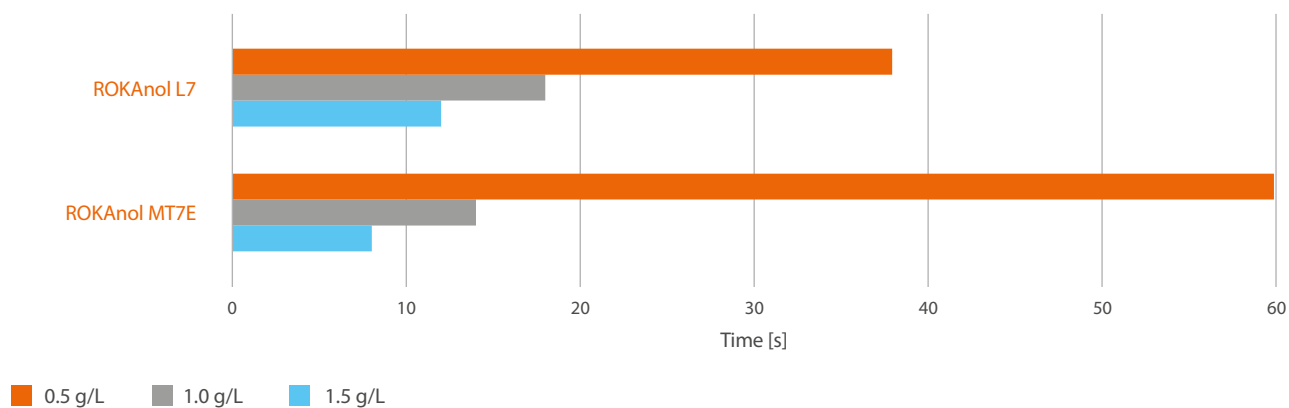
Foam capability was measured according to modified Ross-Miles, method (PN-ISO 696:1994) -the modified Ross-Miles method; at a temperature of 25°(, for a surfactant concentration of 1.0 g/L,

in both demineralized and hard (17°d) water. The foam value was measured after 30, 180 and 300 seconds. The results are presented on the graph.



Wetting capability

Wetting capability was measured at 20°C for three concentrations. The results are presented on the graph. The capability of wetting cotton fabric was determined in accordance with PN-EN 1772:2001.



Alkali and acid resistance

Alkaline resistance

NaOH con. [g/L]	30	40	50	60	70	80	90
Product name							
ROKAnol L7	●	●	●	●	●	●	○
ROKAnol MT7E	●	●	●	○	○	○	○

○ macroscopic phase separation ● homogeneous, cloudy solution ● clear, homogeneous solution ● homogeneous, opalescent solution

Acid resistance

H ₂ SO ₄ con. [mL/L]	1	10	40	60	100	140	225
Product name							
ROKAnol L7	●	●	●	●	●	●	○
ROKAnol MT7E	●	●	●	○	○	○	○

○ macroscopic phase separation ● homogeneous, cloudy solution ● clear, homogeneous solution ● homogeneous, opalescent solution

Solubility

Product name	Demineralized water	Methanol	Acetone	Ethyl ether
ROKAnol L7	●	●	●	●
ROKAnol MT7E	●	●	●	●

● soluble ● insoluble ● partially soluble

ROKAmer 2000 and ROKAmer 2600

ROKAmer 2000 and ROKAmer 2600 are non-ionic surfactants of the ethylene oxide/propylene oxide block copolymer type. Thanks to

their anti-foaming properties, the products can be used in many industrial processes.

Additional information

Product	ROKAmer 2000	ROKAmer2600
Appearance	clear or slightly turbid liquid	clear or turbid liquid
Concentration, %	approx. 100	aprox. 100
Hazen colour	max. 50 (40°C)	max. 50 (40°C)
Cloud point Method A	23–27	16–20
Cloud point Method B	approx. 13	approx. 9
Cloud point Method C	insoluble	approx. 9
Cloud point Method D	approx. 40	approx. 41
Cloud point Method E	approx. 34	33–37
Average molar mass, g/mol	approx. 1800	approx. 2600

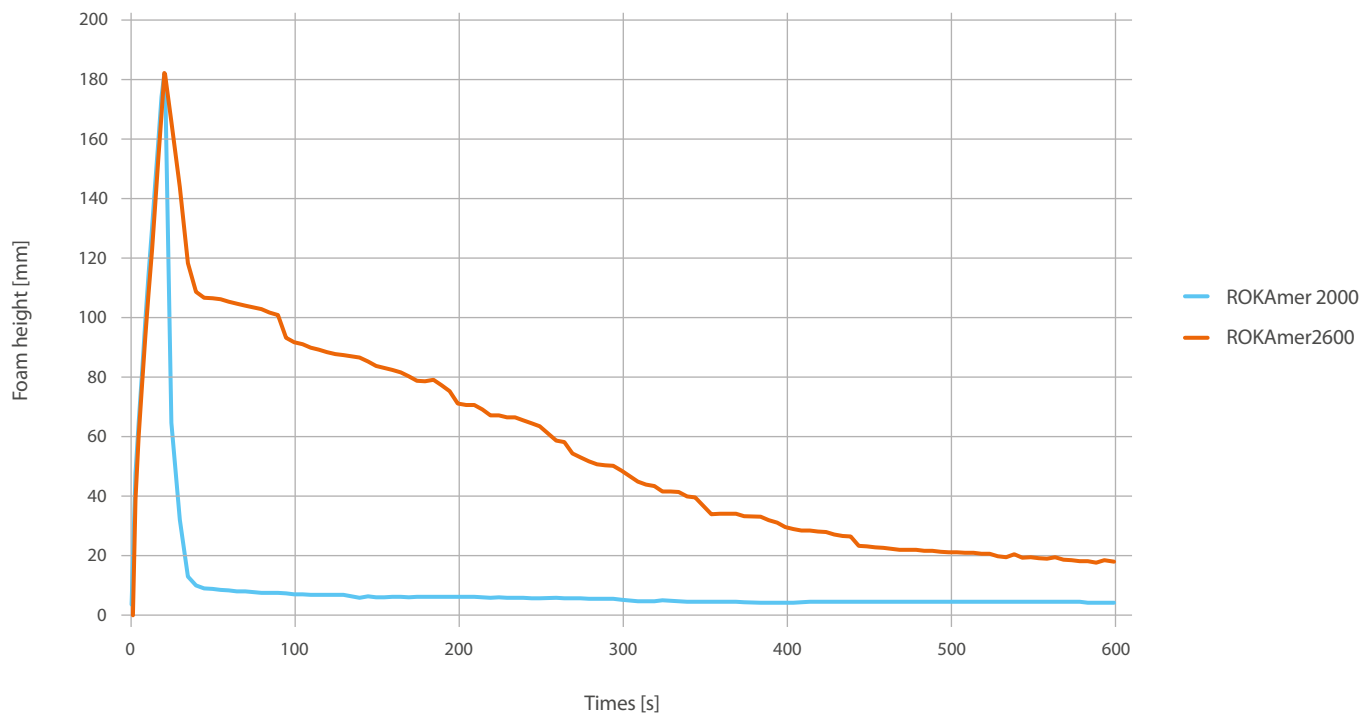


Defoaming Properties

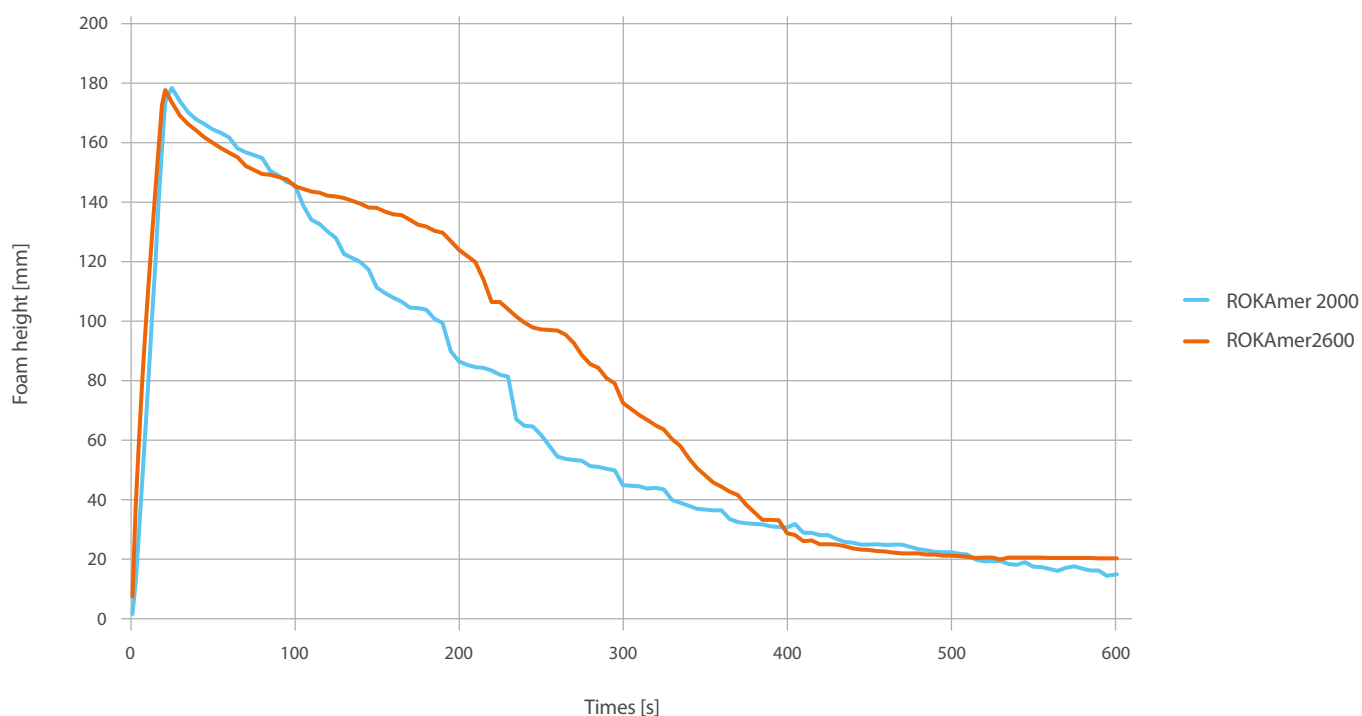
Anti-foaming properties were tested using the internal test method by Dynamic Foam Analyzer (DFA) that allows to determine the ability to extinguish the foam produced by the standard solution.

The method is based on measuring the foam volume generated by the foaming agent solution, which degrades over time, by injection of a solution to the surface of the test compound antifoam.

Defoaming properties in demineralized water



Defoaming properties in hard water



ROKAcet LPK

ROKAcet LPK is a non-ionic surfactant. It is an ethoxylated and propoxylated coconut acid. Due to the natural origin of the raw material, ROKAcet LPK is classified as an ecofriendly product.

Applications



Benefits

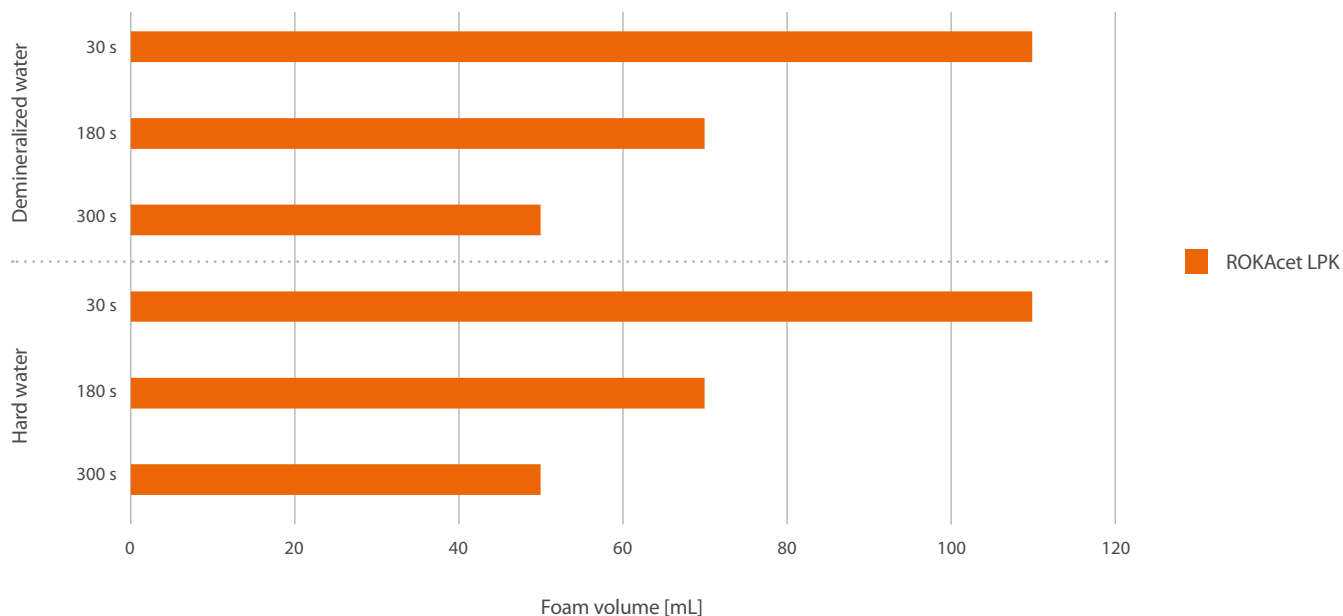
- good wetting properties
- effective ingredient of laundry agents
- good cleaner properties
- excellent solubilizing properties
- good temperature resistance
- compatible with synthetic base stocks, especially with PAGs
- compatible with other additives

Physicochemical parameters	ROKAcet LPK
CAS	96873–84–6
Appearance at temperature (20÷25) °C	clear yellow liquid
Chemical name	C8–C18 acids, ethoxylated, propoxylated, coconut acids
Color (Gardner) at (20 ÷ 25) °C	max. 2
pH of the solution in water [10%]	6,0 ÷ 7,5
Saponification number, mg KOH/g	60 ÷ 70
Cloud point (butyldiglycol/water solution), method E °C	60 ÷ 64
Water, % (m/m)	max. 0.5
Density at 20°C, g/mL	approx. 1.03
Viscosity at 20°C, cP	approx. 160
Surface tension of 0.1% solution at 25°C, mN/m	35
Solidification point °C	approx. +3

Foam capability

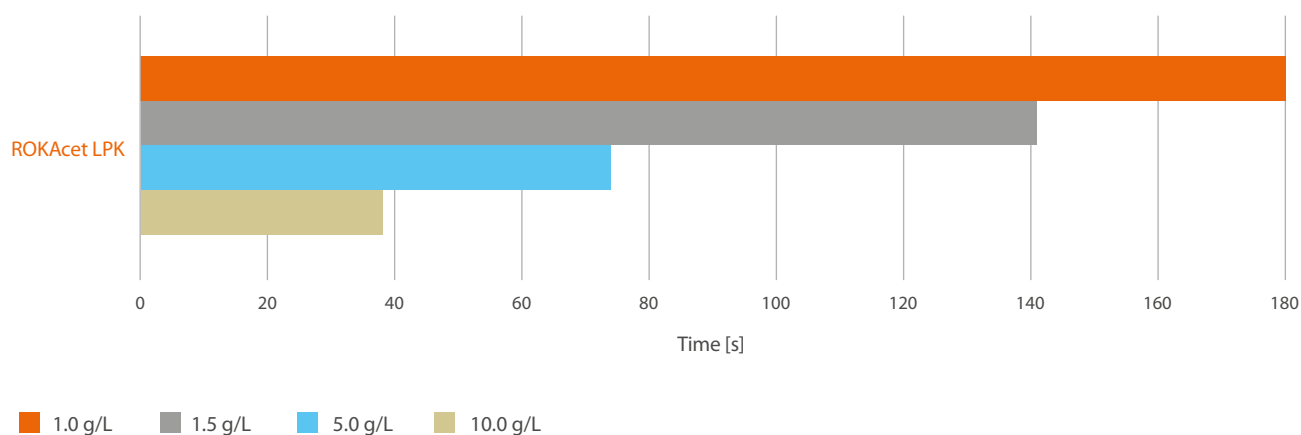
The determination of the foam capability was performed according to PN-ISO 696:1994 (the modified Ross-Miles method) at a temperature of 25°C, for a surfactant concentration of 1.0 g/L,

in both demineralized and hard (17°d) water. The foam stability results of ROKAcet LPK are shown on the graph below.



Wetting capability

The capability of wetting cotton fabric was determined in accordance to with PN-EN 1772:2001. The wetting capability results of ROKAcet LPK are shown on the graph below.



Alkali and acid resistance

The analysis of this stability for ROKAcet LPK Series has been performed in accordance with PN-EN 14712:2005.

Alkaline resistance

NaOH con. [g/L]	10	20	30
Product name			
ROKAcet LPK	●	●	○

○ macroscopic phase separation ● clear, homogeneous solution

Acid resistance

H ₂ SO ₄ con. [mL/L]	1	120	125	135	140	225
Product name						
ROKAcet LPK	●	●	●	●	●	●

○ macroscopic phase separation ● homogeneous, cloudy solution ● clear, homogeneous solution ● homogeneous, opalescent solution

Solubility

Product name	Demineralized water	Methanol	Acetone	Ethyl ether
ROKAcet LPK	●	●	●	●

● soluble ● insoluble ● partially soluble



Lubricating properties

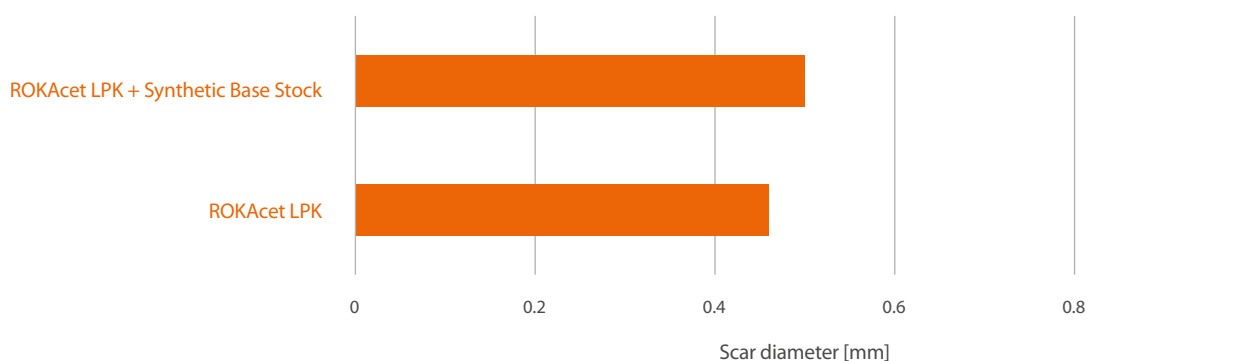
ROKAcet LPK can be used in textile industry because it has very good tribological properties: anti-wear and extreme pressure. ROKAcet LPK can be used as a base and as an additive in lubricating formulations. It is compatible with water-soluble, synthetic bases of the PAG products. ROKAcet LPK is classified according to ISO 46-68 viscosity grade. The viscosity index (VI) for ROKAcet LPK is above 180,

which proves the excellent stability of the kinematic viscosity with temperature changes. Its characteristic, low viscosity enables efficient use and non-sticking materials in devices used in the textile industry. The lubricating results of ROKAcet LPK are shown on the graphs and in the tables below.

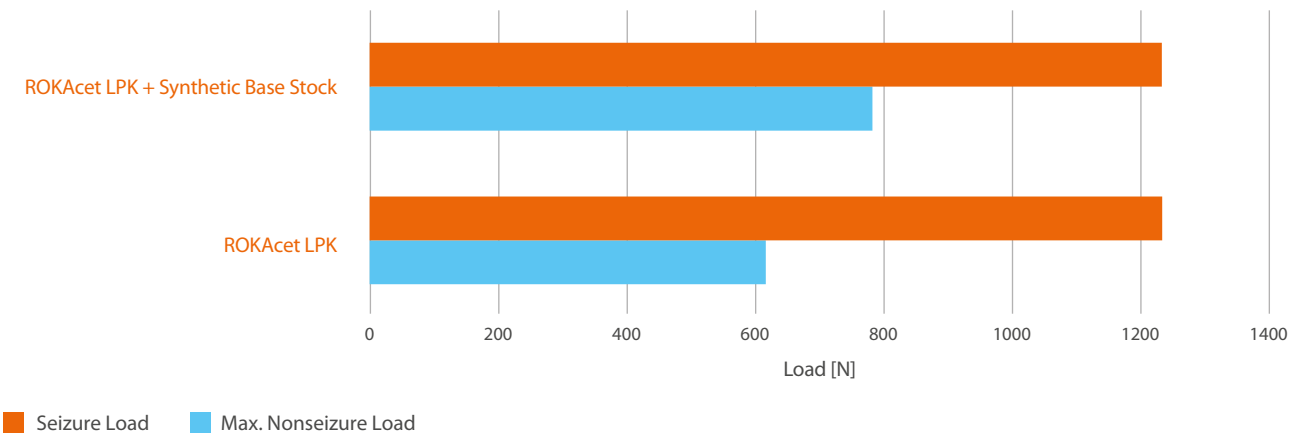
Product name	Kinematic Viscosity at 40°C, cST	Kinematic Viscosity at 100°C, cST	Viscosity index	Viscosity grade according to ISO
ROKAcet LPK	53.78	10.38	186	46 ÷ 68
ROKAcet LPK + Synthetic Base Stock	95.00	18.11	211	100

Product name	Extreme -pressure properties (EP) according of ASTM D2783			Anti-wear properties (AW) according of ASTM D4172	
	Max. Nonseizure Load, N	Scar diameter, mm	Seizure Load, N	Used Load (method B)	Scar diameter, mm
ROKAcet LPK	618	0.30	1236	392	0.46
ROKAcet LPK + Synthetic Base Stock	784	0.34	1236	392	0.50

Anti-wear properties



Extreme pressure properties



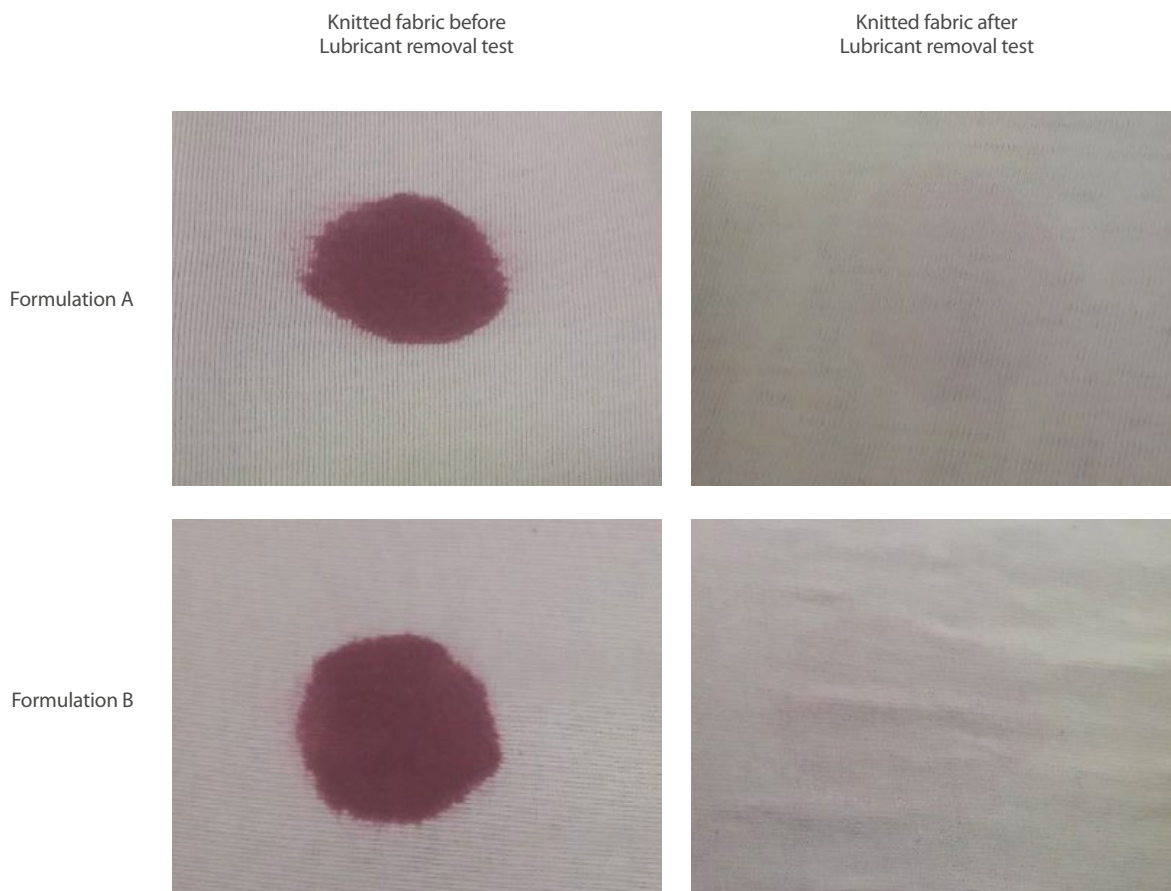
Lubricant removal test

Lubricant removal tests were performed according to PCC EXOL SA own method, using raw cotton fabric (100% combed cotton, weave left-right single bearing, area weight of 150 g/m²). A lubricant (ROKAcet LPK), colored with Sudan Red 7B, is applied to the knitted fabric. The next step of the stain removal test is carried out at temperature 95°C for 60 minutes. After rinsing

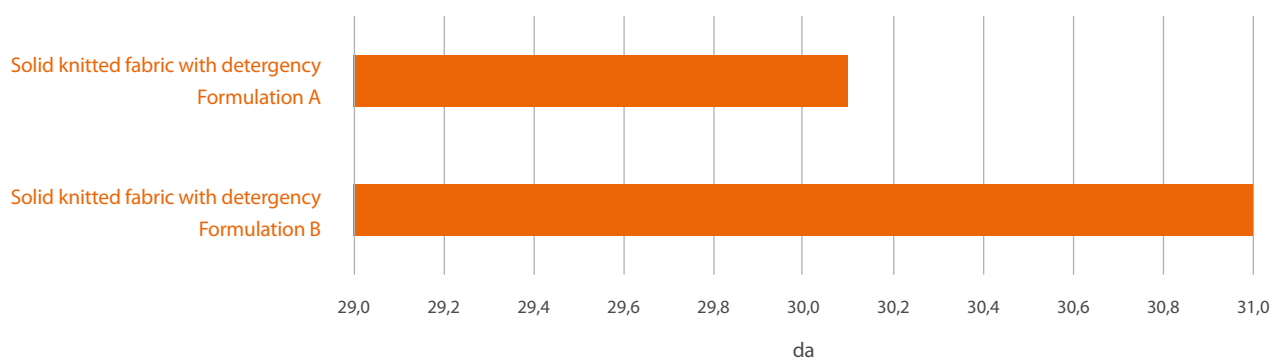
the fabric with water, neutralization process and dry of cotton, the effectiveness of the stain removal from the knitted fabric was assessed. The da parameter from the CIE LAB scale was used, as the difference in the intensity of pink staining of the stain before washing and after washing. The composition of the washing baths is presented below.

	Compositions [g/L]	
	Formulation A	Formulation B
NaOH (110 g/l solution)	11.3	11.3
ROKAcet LPK	-	2
Water	up to 1000	up to 1000





Lubricant removal test – results in da units



The lubricant removal tests are described by the da parameter in accordance with the CIE LAB method. The standard is the soiled fabric, so the higher the value of the da parameter, the better the tested fabric is cleaned.

ROKwin 80, ROKwinols Series and other emulsifiers

In the textile industry, many auxiliaries are in the form of emulsions. Emulsions are dispersed systems consisting of two or more insoluble or sparingly soluble liquids. The liquid present in excess is termed the continuous phase, while the liquid dispersed in it is termed the dispersed phase. In the process of obtaining an emulsion, it is necessary

to use an emulsifier, i.e. a surface-active compound and sometimes used several surfactants. Typically, emulsions found in the textile industry are oil-in-water (o/w) and water-in-oil (w/o). There are many emulsifiers in the PCC EXOL SA portfolio, the description of which is presented below.

- **ROKwin 80** – Sorbitan Monooleate
- **ROKwinol 20** – Sorbitan Monolaureate + 20 EO
- **ROKwinol 60** – Sorbitan Monostearate + 20 EO
- **ROKwinol 80** – Sorbitan Monooleate + 20 EO

- **ROKAcet R26** – Castor Oil+ 26 EO
- **ROKAcet R40** – Castor Oil + 40 EO
- **ROKAcet R70** – Castor Oil + 70 EO
- **ROKAcet RZ17** – Fatty Acid Glycerol Ester, C14-18 + 17 EO

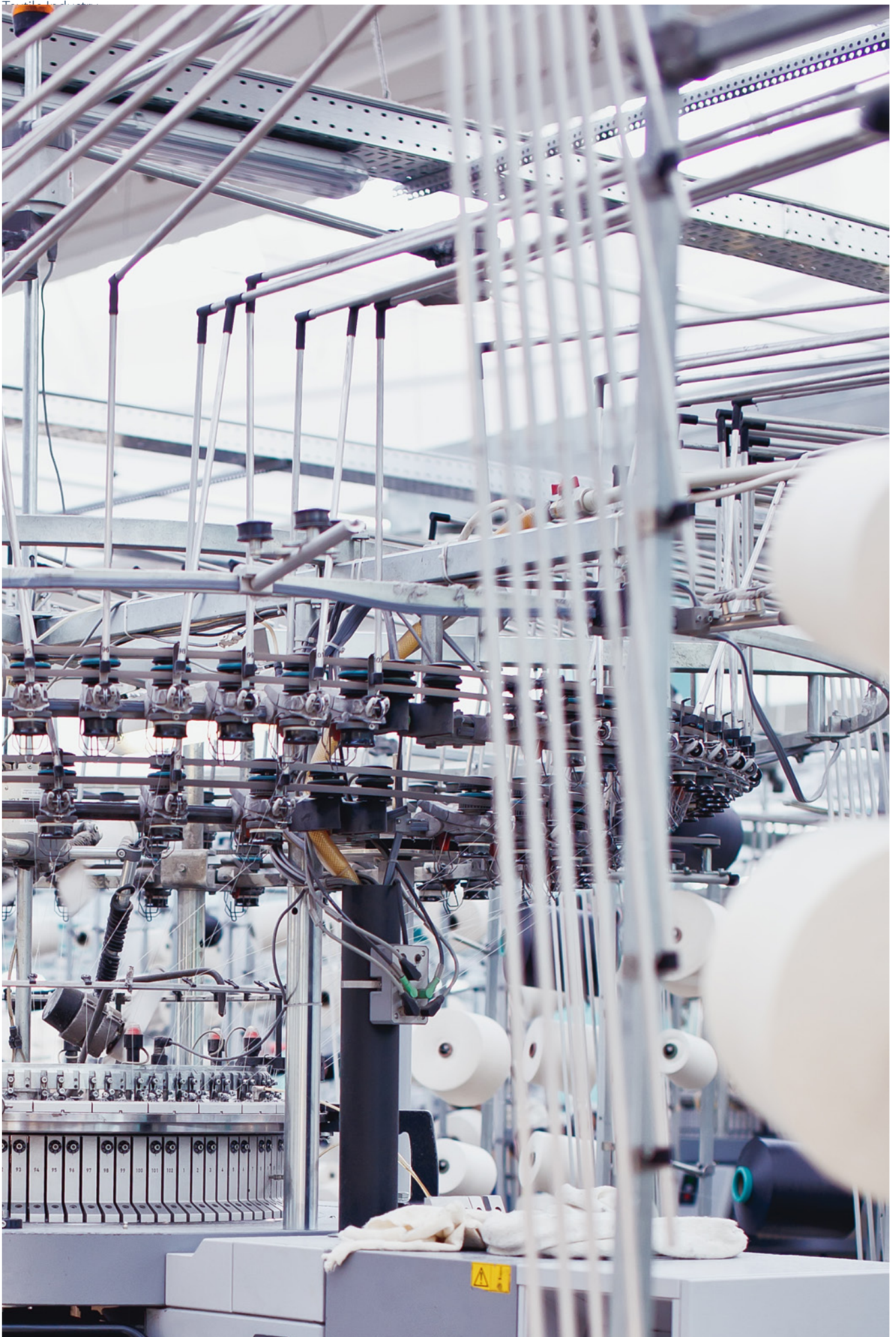
ROKwin 80 and ROKwinols Series

Products	ROKwin 80	ROKwinol 20	ROKwinol 60	ROKwinol 80
Chemical name	Sorbitan Oleate	Polysorbate 20	Polysorbate 60	Polysorbate 80
Molecular weight	approx. 429		approx. 1300	approx. 1300
HLB	4.7	16.7	14.9	15.0
EO (ethoxylated product)	–	+	+	+
Appearance at temperature (20 ÷ 25)°C	oily liquid, with a yellow to dark brown colour	clear liquid	liquid or paste with a pale yellow to light brown colour	liquid or semi liquid with a dark-yellow to brown colour
Saponification number, mg KOH/g	145 ÷ 170	40 ÷ 50	45 ÷ 55	45 ÷ 55
Acid number, mg KOH/g	max.10	max.2	max.2	max.2
Water, % (m/m)	max.1.5	max.3	max.3	max.3

ROKAcets Series

Products	ROKAcet R26	ROKAcet R40	ROKAcet R70	ROKAcet RZ17
Chemical name	PEG-26 Castor Oil	PEG-40 Castor Oil	R70 PEG-70 Castor Oil	PEG-17 Rape Oil
Molecular weight	approx. 2030	approx. 2650	approx. 4000	approx. 1037
HLB	11.0	13.0	15.4	–
EO (ethoxylated product)	+	+	+	+
Appearance at temperature (20 ÷ 25)° C	pale yellow liquid	paste or semi-liquid paste subject to stratification	paste or semi-liquid paste subject to stratification	oily liquid with a yellow to light brown colour
Colour in iodine scale, mgI ₂	max.10	max.10 at 50°C	max.10 at 50°C	–
Saponification number, mg KOH/g	74 -- 82	55 -- 64	40 -- 45	90 -- 110
pH in solution	7.5 -- 9.5 (10% solution)	6.5 -- 8.0 (1% solution)	6.5 -- 8.0 (1% solution)	min. 9.0 (12% solution)
Water, % (m/m)	max.0.5	max.1.0	max.1.0	





03 / Classification of product groups in terms of their function in textile processes

Spinning

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Dye removal	Cleaning	Softening	Antielectrostatic	Ionic character	Description	CAS	HLB
ROKAnol DB3				•		•		•			N	Alcohols, C12-15 + 3 EO	68131-39-5	7.8
ROKAnol DB5				•		•		•			N	Alcohols, C12-15 + 5 EO	68131-39-5	10.5
ROKAnol DB6				•		•		•			N	Alcohols, C12-15 + 5 EO	68131-39-5	11.4
ROKAnol DB6M				•		•		•			N	Alcohols, C12-15 + 5 EO	68131-39-5	11.4
ROKAnol DB7	•	•		•				•			N	Alcohols, C12-15 + 7 EO	68131-39-5	12.0
ROKAnol DB7R	•	•		•				•			N	Alcohols, C12-15 + 7 EO	68131-39-5	12.0
ROKAnol DB7W	•	•		•				•			N	Alcohols, C12-15 + 7 EO	68131-39-5	12.0
ROKAnol DB9	•	•		•				•			N	Alcohols, C12-15 + 9 EO	68131-39-5	13.2
ROKAnol EH3				•		•		•			N	Isooctanol + 3 EO	26468-86-0	–
ROKAnol GA7	•	•		•				•			N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA7LA	•	•		•				•			N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA7LAW	•	•		•				•			N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA7W	•	•		•				•			N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA8	•	•		•	•	•					N	Alcohols, C10 + 8 EO	160875-66-1	14.0
ROKAnol GA8LA	•	•		•	•	•					N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA8W	•	•		•	•	•					N	Alcohols, C10 + 8 EO	160875-66-1	14.0
ROKAnol GT3				•		•					N	Alcohols, C9-16 + 3 EO	97043-91-9	8.5
ROKAnol GT5		•		•				•			N	Alcohols, C9-16 + 5 EO	97043-91-9	10.7
ROKAnol GT6	•	•		•		•		•			N	Alcohols, C9-16 + 6 EO	97043-91-9	12.0
ROKAnol GT7	•	•		•				•			N	Alcohols, C9-16 + 7 EO	97043-91-9	12.8
ROKAnol GT8	•	•		•	•	•					N	Alcohols, C9-16 + 8 EO	97043-91-9	13.3
ROKAnol GT9	•	•			•		•	•			N	Alcohols, C9-16 + 9 EO	97043-91-9	–
ROKAnol GT9W	•	•			•		•	•			N	Alcohols, C9-16 + 9 EO	97043-91-9	–

Spinning

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Dye removal	Cleaning	Softening	Antielectrostatic	Ionic character	Description	CAS	HLB
ROKAnol IT3				•		•					N	Alcohols, C13, branched + 3 EO	69011-36-5	8.0
ROKAnol IT5		•		•				•			N	Alcohols, C13, branched + 5 EO	69011-36-5	10.5
ROKAnol IT6	•	•		•		•		•			N	Alcohols, C13, branched + 6 EO	69011-36-5	11.4
ROKAnol IT6R	•	•		•		•		•			N	Alcohols, C13, branched + 6 EO	69011-36-5	11.5
ROKAnol IT7	•	•		•				•			N	Alcohols, C13, branched + 7 EO	69011-36-5	12.1
ROKAnol IT7W	•	•		•				•			N	Alcohols, C13, branched + 7 EO	69011-36-5	12.1
ROKAnol IT8	•	•		•	•	•						Alcohols, C13, branched + 8 EO	69011-36-5	12.8
ROKAnol IT9		•			•		•	•			N	Alcohols, C13, branched + 9 EO	69011-36-5	13.3
ROKAnol IT9W		•			•		•	•			N	Alcohols, C13, branched + 9 EO	69011-36-5	13.3
ROKAnol L4	•	•		•				•			N	Alcohols, C12-14 + 4 EO	68439-50-9	10.0
ROKAnol L4P5	•		•	•				•			N	Alcohols, C12-14 + EO/PO	68439-51-0	5.3
ROKAnol L5A		•		•				•			N	Alcohols, C12-16 + 5 EO	68551-12-2	10.5
ROKAnol L5P5	•	•	•	•				•			N	Alcohols, C12-14 + EO/PO	68439-51-0	6.0
ROKAnol L7	•	•		•				•			N	Alcohols, C12-14 + 7 EO	68439-50-9	12.9
ROKAnol L7A	•	•		•				•			N	Alcohols, C12-16 + 7 EO	68551-12-2	12.9
ROKAnol L7W	•	•		•				•			N	Alcohols, C12-14 + 7 EO	68439-50-9	12.9
ROKAnol L9A		•			•		•	•			N	Alcohols, C12-16 + 9 EO	–	–
ROKAnol L9AW		•			•		•	•			N	Alcohols, C12-16 + 9 EO	–	13.3
ROKAnol L10	•	•		•	•			•			N	Alcohols, C12-14 + 10 EO	68439-50-9	14.1
ROKAnol L10A	•	•		•	•			•			N	Alcohols, C12-16 + 10 EO	68551-12-2	14.1
ROKAnol L10/80	•	•		•	•			•			N	Alcohols, C12-14 + 10 EO	68439-50-9	14.1
ROKAnol L80/50W	•	•	•	•	•			•			N	Alcohol, C12-14 + EO/PO	68439-51-0	17.6
ROKAnol LK1				•		•					N	Alcohols, C12-14 + EO	68439-50-9	3.7
ROKAnol LK2		•		•		•		•			N	Alcohols, C12-14 + 2 EO	68439-50-9	6.2
ROKAnol LK3		•		•		•		•			N	Alcohols, C12-14 + 3 EO	68439-50-9	7.8
ROKAnol UD3	•	•		•				•			N	Alcohols, C11-Iso + 3 EO	127036-24-2	8.7
ROKAnol UD5	•	•		•				•			N	Alcohols, C11-Iso + 5 EO	127036-24-2	11.0
ROKAnol UD7	•	•		•		•		•			N	Alcohols, C11-Iso + 7 EO	127036-24-2	12.3
ROKAfenol N7	•	•		•	•		•	•			N	Nonylphenol + 7 EO	127087-87-0	11.5
ROKAfenol N8	•	•		•	•		•	•			N	Nonylphenol + 9 EO	127087-87-0	12.5
ROKAfenol N8P7	•	•	•	•	•		•	•			N	Nonylphenol + EO/PO	37251-69-7	7.7

Spinning

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Dye removal	Cleaning	Softening	Antielectrostatic	Ionic character	Description	CAS	HLB
ROKAfenol N8P14	•	•	•	•	•		•	•			N	Nonylphenol + EO/PO	37251-69-7	5.5
ROKAfenol N9	•	•		•	•		•	•			N	Nonylphenol + 9 EO	127087-87-0	12.8
ROKAamid MRZ17				•	•						N	Glyceryl Rapeate + 17 EO	221045-17-6	–
ROKAamid RAD				•	•						N	C16-18 and C18- unsatd	68603-38-3	–
ROKAcet K7				•		•			•	•	N	Cococate + 7 EO	61791-29-5	11.6
ROKAcet KO300G				•		•				•	N	Glyceryl Cococate + 7 EO	68201-46-7	–
ROKAcet O7				•		•					N	Oleate + 7 EO	9004-96-0	10.6
ROKwin 60				•							N	Sorbitan Monostearate	1338-43-8	4.7
ROKwin 80				•							N	Sorbitan Monooleate	1338-43-8	4.7
ROKwinol 20				•							N	Sorbitan Monooleate + 20 EO	9005-64-5	16.7
ROKwinol 60				•							N	Sorbitan Monostearate + 20 EO	9005-67-8	14.9
ROKwinol 80				•							N	Sorbitan Monooleate + 20 EO	9005-65-6	15.0



Desizing

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ABS Acid	•	•		•				•		A	Dodecylbenzene Sulfonic Acid	85536-14-7	–
ABS Acid/1	•	•		•				•		A	Dodecylbenzene Sulfonic Acid	85536-14-7	–
ABSNa 30	•	•		•				•		A	Sodium Dodecylbenzenesulfonate	68411-30-3	–
ABSNa 50	•	•		•				•		A	Sodium Dodecylbenzenesulfonate	68411-30-3	–
SULFOROKAnol L225/1	•	•					•	•		A	Sodium Laureth Sulfate	68891-38-3	–
SULFOROKAnol L227/1	•	•					•	•		A	Sodium Laureth Sulfate	68891-38-3	–
SULFOROKAnol L270/1	•	•					•	•		A	Sodium Laureth Sulfate	68891-38-3	–
SULFOROKAnol L327	•	•					•	•		A	Sodium C12-C15 Pareth Sulfate	68891-38-3	–
ROSULfan D	•	•						•		A	Sodium Decyl Sulfate	142-87-0	–
ROSULfan E	•	•						•		A	Sodium 2-Ethylhexyl Sulfate	126-92-1	–
ROSULfan L	•	•						•		A	Sodium Lauryl Sulfate	85586-07-8	–
ROSULfan O	•	•						•		A	Sodium Octyl Sulphate	142-31-4	–
EXOfos PA–1300						•				A	Tridecyl Ether Phosphate	–	–
EXOfos PB–136	•	•				•		•		A	POE (6) Tridecyl Ether Phosphate	9046-01-9	–
EXOfos PB–136B	•	•				•		•		A	POE (6) Tridecyl Ether Phosphate	9046-01-9	–
EXOfos PB–139	•	•				•		•		A	POE (9) Tridecyl Ether Phosphate	9046-01-9	–
EXOfos PB–264	•	•		•		•		•		A	POE (4) Lauryl Ether Phosphate	68511-37-5	–
EXOfos PT–E		•	•		•	•				A	POE (16) Tristerylphenol Ether Phosphate,	90093-37-1	–
ROKAfos 1013	•					•		•		A	POE (9) Tridecyl Ether Phosphate	9046-01-9	–
ROKAnol GA3		•	•	•				•		N	Alcohols, C10 + 3 EO	160875-66-1	9.0
ROKAnol GA4		•	•	•				•		N	Alcohols, C10 + 4 EO	160875-66-1	–
ROKAnol GA5		•	•	•				•		N	Alcohols, C10 + 5 EO	160875-66-1	–
ROKAnol GA5W		•	•	•				•		N	Alcohols, C10 + 5 EO	160875-66-1	–
ROKAnol GA6	•	•	•	•				•	•	N	Alcohols, C10 + 6 EO	160875-66-1	12.5
ROKAnol GA7	•	•	•	•				•	•	N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA7LA	•	•	•	•				•	•	N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA7LAW	•	•	•	•				•	•	N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA7W	•	•	•	•				•	•	N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA8	•	•	•	•	•	•	•	•		N	Alcohols, C10 + 8 EO	160875-66-1	14.0
ROKAnol GA8LA	•	•	•	•	•	•				N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA8W	•	•	•	•	•	•				N	Alcohols, C10 + 8 EO	160875-66-1	14.0

Desizing

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ROKAnol GA9		•	•		•		•	•		N	Alcohols, C10 + 9 EO	160875-66-1	14.5
ROKAnol GA9LA		•	•		•		•	•		N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA9W/80		•	•		•		•	•		N	Alcohols, C10 + 9 EO	160875-66-1	–
ROKAnol GT5		•				•				N	Alcohols, C9-16 + 5 EO	97043-91-9	10.7
ROKAnol GT6	•	•		•		•				N	Alcohols, C9-16 + 6 EO	97043-91-9	12.0
ROKAnol GT7	•	•				•				N	Alcohols, C9-16 + 7 EO	97043-91-9	12.8
ROKAnol GT8	•	•	•	•						N	Alcohols, C9-16 + 8 EO	97043-91-9	13.3
ROKAnol GT9	•		•		•	•				N	Alcohols, C9-16 + 9 EO	97043-91-9	–
ROKAnol GT9W	•		•		•	•				N	Alcohols, C9-16 + 9 EO	97043-91-9	–
ROKAnol ID5	•	•			•	•				N	Isodecanol + 5 EO	78330-20-8	11.7
ROKAnol ID6	•	•		•						N	Isodecanol + 6 EO	78330-20-8	12.4
ROKAnol ID7	•	•		•						N	Isodecanol + 7 EO	78330-20-8	13.2
ROKAnol ID8	•	•		•						N	Isodecanol + 8 EO	78330-20-8	13.8
ROKAnol IT5		•		•						N	Alcohols, C13, branched + 5 EO	69011-36-5	10.5
ROKAnol IT6	•	•		•		•		•		N	Alcohols, C13, branched + 6 EO	69011-36-5	11.4
ROKAnol IT6R	•	•		•		•		•		N	Alcohols, C13, branched + 6 EO	69011-36-5	11.5
ROKAnol IT7	•	•		•				•		N	Alcohols, C13, branched + 7 EO	69011-36-5	12.1
ROKAnol IT7W	•	•		•				•		N	Alcohols, C13, branched + 7 EO	69011-36-5	12.1
ROKAnol IT8	•	•		•		•				N	Alcohols, C13, branched + 8 EO	69011-36-5	12.8
ROKAnol IT9		•			•		•	•		N	Alcohols, C13, branched + 9 EO	69011-36-5	13.3
ROKAnol IT9W		•			•		•	•		N	Alcohols, C13, branched + 9 EO	69011-36-5	13.3
ROKAnol LP27	•	•	•	•	•		•	•		N	Alcohols, C12-14 + EO/PO	68439-51-0	6.0
ROKAnol LP3943	•	•	•					•		N	Alcohols, C12-15 + EO/PO	120313-48-6	–
ROKAnol LP400	•	•	•	•			•	•		N	Isodecyl Alcohol + EO/PO	103818-93-5	–
ROKAnol LP700	•	•	•	•				•		N	Isotridecyl Alcohol + EO/PO	196823-11-7	–
ROKAnol LP911	•	•	•					•		N	Alcohols, C9-11+ EO/PO	102782-43-4	–
ROKAnol MT5E	•	•		•				•		N	Alcohols, C8-18 + 5 EO	157707-43-2	–
ROKAnol MT7E	•	•		•				•		N	Alcohols, C8-18 + 7 EO	157707-43-2	–
ROKAnol NL3	•	•		•	•			•		N	Alcohols, C9-11 + 3 EO	68439-46-3	8.5
ROKAnol NL4	•	•		•	•			•		N	Alcohols, C9-11+ 4 EO	68439-46-3	–
ROKAnol NL5	•	•		•	•			•		N	Alcohols, C9-11 + 5 EO	68439-46-3	11.6

Desizing

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ROKAnol NL6	•	•		•	•			•		N	Alcohols, C9-11 + 6 EO	68439-46-3	12.5
ROKAnol NL6W	•	•		•	•			•		N	Alcohols, C9-11 + 6 EO	68439-46-3	–
ROKAnol NL6W/95	•	•		•	•			•		N	Alcohols, C9-11 + 6 EO	68439-46-3	12.5
ROKAnol NL8	•	•		•	•			•		N	Alcohols, C9-11 + 8 EO	68439-46-3	15.7
ROKAnol NL8W	•	•		•	•			•		N	Alcohols, C9-11 + 8 EO	68439-46-3	13.8
ROKAnol NL8P4	•	•	•	•	•			•		N	Alcohols, C9-11 + EO/PO	103818-93-5	9.5
ROKAnol TMP3	•	•		•				•		N	Alcohols, C13-15 + 3 EO	157627-86-6	–
ROKAnol TMP5	•	•		•	•			•		N	Alcohols, C13-15 + 5 EO	157627-86-6	12
ROKAnol TMP7	•	•		•				•		N	Alcohols, C13-15 + 7 EO	157627-86-6	12
ROKAnol TMP7R	•	•		•				•		N	Alcohols, C13-15 + 7 EO	157627-86-6	12
ROKAnol UD3	•	•		•				•		N	Alcohols, C11-Iso + 3 EO	127036-24-2	8.7
ROKAnol UD5	•	•		•				•		N	Alcohols, C11-Iso + 5 EO	127036-24-2	11.0
ROKAnol UD7	•	•		•		•		•		N	Alcohols, C11-Iso + 7 EO	127036-24-2	12.3
ROKAfenol N7	•	•		•	•		•	•		N	Nonylphenol + 7 EO	127087-87-0	11.5
ROKAfenol N8	•	•		•	•		•	•		N	Nonylphenol + 9 EO	127087-87-0	12.5
ROKAfenol N8P7	•	•	•	•	•		•	•		N	Nonylphenol + EO/PO	37251-69-7	7.7
ROKAfenol N8P14	•	•	•	•	•		•	•		N	Nonylphenol + EO/PO	37251-69-7	5.5
ROKAfenol N9	•	•		•	•		•	•		N	Nonylphenol + 9 EO	127087-87-0	12.8
ROKAmer 2100	•		•	•	•					N	PEG/PPG-Copolymer	9003-11-6	3.4
ROKAmer 2330	•		•	•	•					N	PEG/PPG-Copolymer	9003-11-6	4.9
ROKAmer 2950	•	•	•	•	•			•	•	N	PEG/PPG-Copolymer	9003-11-6	8.1
ROKAmer PP450	•	•	•	•	•			•		N	PPG	25322-69-4	–
EXOdemul S11	•	•	•	•	•			•		N	PEG/PPG-Copolymer	-	–
EXOdemul WD-18	•	•	•	•	•			•		N	PEG/PPG-Copolymer	9003-11-6	–

Scouring

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ABS Acid	•	•		•					•		A	Dodecylbenzene Sulfonic Acid	85536-14-7	–
ABS Acid/1	•	•		•					•		A	Dodecylbenzene Sulfonic Acid	85536-14-7	–
ABSNa 30	•	•		•					•		A	Sodium Dodecylbenzenesulfonate	68411-30-3	–
ABSNa 50	•	•		•					•		A	Sodium Dodecylbenzenesulfonate	68411-30-3	–
SULFOROKAnol L225/1	•	•					•	•	•		A	Sodium Laureth Sulfate	68891-38-3	–
SULFOROKAnol L227/1	•	•					•	•	•		A	Sodium Laureth Sulfate	68891-38-3	–
SULFOROKAnol L270/1	•	•					•	•	•		A	Sodium Laureth Sulfate	68891-38-3	–
SULFOROKAnol L327	•	•					•	•	•		A	Sodium C12-C15 Pareth Sulfate	68891-38-3	–
ROSULfan D	•	•						•			A	Sodium Decyl Sulfate	142-87-0	–
ROSULfan E	•	•						•			A	Sodium 2-Ethylhexyl Sulfate	126-92-1	–
ROSULfan L	•	•						•			A	Sodium Lauryl Sulfate	85586-07-8	–
ROSULfan O	•	•						•			A	Sodium Octyl Sulphate	142-31-4	–
EXOfos PA–0805		•		•							A	2-Ethylhexyl Ether Phosphate	12645-31-7	–
EXOfos PB–043K		•	•	•			•	•	•		A	POE (3) Butyl Alcohol Ether Phosphate, Potassium salt	–	–
EXOfos PB–083	•	•	•				•	•	•		A	POE (3) 2-Ethylhexyl Ether Phosphate	68439-39-4	A
EXOfos PB–136	•	•		•		•		•			A	POE (6) Tridecyl Ether Phosphate	9046-01-9	A
EXOfos PB–136B	•	•				•		•			A	POE (6) Tridecyl Ether Phosphate	9046-01-9	A
EXOfos PB–138	•	•				•		•			A	POE (8) Tridecyl Ether Phosphate	39464-69-2	A
EXOfos PB–139	•	•				•		•			A	POE (9) Tridecyl Ether Phosphate	9046-01-9	A
EXOfos PB–184	•	•				•		•			A	POE (4) Oleyl Ether Phosphate	39464-69-2	A
EXOfos PB–264	•	•				•		•			A	POE (4) Lauryl Ether Phosphate	68511-37-5	A
EXOfos PT–E		•	•		•	•					A	POE (16) Tristyrylphenol Ether Phosphate	90093-37-1	–
ROKAfos 1013	•					•		•			A	POE (9)Tridecyl Ether Phosphate	9046-01-9	–
ROKAnol B2	•	•	•	•					•		N	Alcohols, C16-18 + EO/PO	68002-96-0	6.2
ROKAnol D5	•	•							•		N	Alcohols, C10-16 + 5 EO	78330-20-8	11.9
ROKAnol D7	•	•							•		N	Alcohols, C10-16 + 7 EO	68002-97-1	13.1
ROKAnol DB5				•		•					N	Alcohols, C12-15 + 5 EO	68131-39-5	10.5
ROKAnol DB6	•			•		•			•		N	Alcohols, C12-15 + 5 EO	68131-39-5	11.4
ROKAnol DB6M	•			•		•			•		N	Alcohols, C12-15 + 5 EO	68131-39-5	11.4
ROKAnol GA3		•	•				•				N	Alcohols, C10 + 3 EO	160875-66-1	9.0
ROKAnol GA4		•	•				•				N	Alcohols, C10 + 4 EO	160875-66-1	–

Scouring

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ROKAnol GA5		•	•				•				N	Alcohols, C10 + 5 EO	160875-66-1	–
ROKAnol GA5W	•	•	•				•				N	Alcohols, C10 + 5 EO	160875-66-1	–
ROKAnol GA6	•	•	•	•				•	•		N	Alcohols, C10 + 6 EO	160875-66-1	12.5
ROKAnol GA7	•	•	•	•				•	•		N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA7LA	•	•	•	•				•	•		N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA7LAW	•	•	•	•				•	•		N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA7W	•	•	•	•				•	•		N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA8	•	•	•	•	•	•	•	•			N	Alcohols, C10 + 8 EO	160875-66-1	14.0
ROKAnol GA8LA	•	•	•	•	•	•					N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA8W	•	•	•	•	•	•					N	Alcohols, C10 + 8 EO	160875-66-1	14.0
ROKAnol GA9		•	•		•		•	•			N	Alcohols, C10 + 9 EO	160875-66-1	14.5
ROKAnol GA9LA		•	•		•		•	•			N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA9W/80		•	•		•		•	•			N	Alcohols, C10 + 9 EO	160875-66-1	–
ROKAnol GT3		•				•					N	Alcohols, C9-16 + 3 EO	97043-91-9	8.5
ROKAnol GT5		•		•		•					N	Alcohols, C9-16 + 5 EO	97043-91-9	10.7
ROKAnol GT6	•	•				•					N	Alcohols, C9-16 + 6 EO	97043-91-9	12.0
ROKAnol GT7	•	•	•	•							N	Alcohols, C9-16 + 7 EO	97043-91-9	12.8
ROKAnol GT8	•		•		•	•					N	Alcohols, C9-16 + 8 EO	97043-91-9	13.3
ROKAnol GT9	•		•		•	•					N	Alcohols, C9-16 + 9 EO	97043-91-9	–
ROKAnol GT9W	•		•		•	•					N	Alcohols, C9-16 + 9 EO	97043-91-9	–
ROKAnol ID5	•	•			•	•					N	Isodecanol + 5 EO	78330-20-8	11.7
ROKAnol ID6	•	•			•	•					N	Isodecanol + 6 EO	78330-20-8	12.4
ROKAnol ID7	•	•		•							N	Isodecanol + 7 EO	78330-20-8	13.2
ROKAnol ID8	•	•		•							N	Isodecanol + 8 EO	78330-20-8	13.8
ROKAnol IT3		•				•					N	Alcohols, C13, branched + 3 EO	69011-36-5	8.0
ROKAnol IT5		•		•					•		N	Alcohols, C13, branched + 5 EO	69011-36-5	10.5
ROKAnol IT6	•	•		•		•			•		N	Alcohols, C13, branched + 6 EO	69011-36-5	11.4
ROKAnol IT6R	•	•		•		•			•		N	Alcohols, C13, branched + 6 EO	69011-36-5	11.5
ROKAnol IT7	•	•		•					•		N	Alcohols, C13, branched + 7 EO	69011-36-5	12.1
ROKAnol IT7W	•	•		•					•		N	Alcohols, C13, branched + 7 EO	69011-36-5	12.1
ROKAnol IT8	•	•		•	•	•					N	Alcohols, C13, branched + 8 EO	69011-36-5	12.8

Scouring

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ROKAnol IT9		●			●			●	●		N	Alcohols, C13, branched + 9 EO	69011-36-5	13.3
ROKAnol IT9W		●			●			●	●		N	Alcohols, C13, branched + 9 EO	69011-36-5	13.3
ROKAnol K3				●							N	Alcohols, C16-18 unsaturated + 3 EO	68920-66-1	7.0
ROKAnol K5				●							N	Alcohols, C16-18 unsaturated + 5 EO	68920-66-1	9.2
ROKAnol K7				●							N	Alcohols, C16-18 unsaturated + 7 EO	68920-66-1	10.8
ROKAnol K18		●		●	●			●	●		N	Alcohols, C16-18 unsaturated + 18 EO	68920-66-1	16.3
ROKAnol K21		●		●	●			●	●		N	Alcohols, C16-18 unsaturated + 21 EO	68920-66-1	16.5
ROKAnol L4P5	●		●	●					●		N	Alcohols, C12-14 + EO/PO	68439-51-0	5.3
ROKAnol L5P5	●	●	●	●					●		N	Alcohols, C12-14 + EO/PO	68439-51-0	6.0
ROKAnol L10	●	●		●	●				●		N	Alcohols, C12-14 + 10 EO	68439-50-9	14.1
ROKAnol L10A	●	●		●	●				●		N	Alcohols, C12-16 + 10 EO	68551-12-2	14.1
ROKAnol L10/80	●	●		●	●				●		N	Alcohols, C12-14 + 10 EO	68439-50-9	14.1
ROKAnol L80/50W	●	●	●	●	●				●		N	Alcohol, C12-14 + EO/PO	68439-51-0	17.6
ROKAnol LK1		●		●		●			●		N	Alcohols, C12-14 + EO	68439-50-9	3.7
ROKAnol LK2		●		●		●			●		N	Alcohols, C12-14 + 2 EO	68439-50-9	6.2
ROKAnol LK3		●		●		●			●		N	Alcohols, C12-14 + 3 EO	68439-50-9	7.8
ROKAnol LP2024W/95	●	●	●	●	●	●		●	●		N	Alcohols, C10 + EO/PO	37251-67-5	6.3
ROKAnol LP100	●	●	●		●			●	●		N	Alcohols, C12-15 + EO/PO	120313-48-6	–
ROKAnol LP1319			●								N	Alcohols, C16-18 + EO/PO	68002-96-0	–
ROKAnol LP160		●	●		●			●			N	Alcohols, C12-14, ethoxylated propoxylated	68439-51-0	–
ROKAnol LP200			●		●			●	●		N	Isodecyl Alcohol + EO/PO	68439-30-5	–
ROKAnol LP2023			●		●						N	Alcohols, C16-18 + EO/PO	68002-96-0	–
ROKAnol LP2126	●		●	●	●			●	●		N	Alcohols, C16-18 + EO/PO	68002-96-0	–
ROKAnol LP2227	●	●	●	●	●			●	●		N	Oxirane, 2-methyl-, polymer with oxirane, mono (2-propylheptyl) ether	166736-08-9	–
ROKAnol LP2529	●	●	●	●					●		N	Alcohols, C12-14 + EO/PO	68551-13-3	3.5
ROKAnol LP27	●	●	●	●	●			●	●		N	Alcohols, C12-14 + EO/PO	68439-51-0	6.0
ROKAnol LP3135	●	●	●	●					●		N	Alcohols, C9-11-Iso-, C10- rich + EO/PO	154518-36-2	–
ROKAnol LP3943	●	●	●						●		N	Alcohols, C12-15 + EO/PO	120313-48-6	–
ROKAnol LP400	●	●	●	●				●	●		N	Isodecyl Alcohol + EO/PO	103818-93-5	–
ROKAnol LP60			●						●		N	Alcohols, C9-11 + PO	68920-69-4	–

Scouring

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ROKAnol LP700	•	•	•	•				•	•		N	Isotridecyl Alcohol + EO/PO	196823-11-7	–
ROKAnol LP911	•	•	•						•		N	Alcohols, C9-11+ EO/PO	102782-43-4	–
ROKAnol NL6	•	•		•	•				•		N	Alcohols, C9-11 + 6 EO	68439-46-3	12.5
ROKAnol NL6W	•	•		•	•				•		N	Alcohols, C9-11 + 6 EO	68439-46-3	–
ROKAnol NL6W/95	•	•		•	•				•		N	Alcohols, C9-11 + 6 EO	68439-46-3	12.5
ROKAnol NL8	•	•		•	•				•		N	Alcohols, C9-11 + 8 EO	68439-46-3	15.7
ROKAnol NL8W	•	•		•	•				•		N	Alcohols, C9-11 + 8 EO	68439-46-3	13.8
ROKAnol NL8P4	•	•	•	•	•				•		N	Alcohols, C9-11 + EO/PO	103818-93-5	9.5
ROKAnol NL9	•	•		•	•				•		N	Alcohols, C9-11 + 8 EO	68439-46-3	–
ROKAnol RZ4P11™	•	•	•		•						N	Alcohols, C16-18 + EO/PO	68002-96-0	3.3
ROKAnol T6				•	•						N	Alcohols, C16-18 + 6 EO	68439-49-6	10
ROKAnol T12				•	•						N	Alcohols, C16-18 + 12 EO	68439-49-6	13.5
ROKAnol TMP7	•	•		•				•			N	Alcohols, C13-15 + 7 EO	157627-86-6	12
ROKAnol TMP7R	•	•		•				•			N	Alcohols, C13-15 + 7 EO	157627-86-6	12
ROKAnol UD3	•	•		•					•		N	Alcohols, C11-Iso + 3 EO	127036-24-2	8.7
ROKAnol UD5	•	•		•					•		N	Alcohols, C11-Iso + 5 EO	127036-24-2	11.0
ROKAnol UD7	•	•		•		•			•		N	Alcohols, C11-Iso + 7 EO	127036-24-2	12.3
ROKAfenol N7	•	•		•	•			•	•		N	Nonylphenol + 7 EO	127087-87-0	11.5
ROKAfenol N8	•	•		•	•			•	•		N	Nonylphenol + 9 EO	127087-87-0	12.5
ROKAfenol N8P7	•	•	•	•	•			•	•		N	Nonylphenol + EO/PO	37251-69-7	7.7
ROKAfenol N8P14	•	•	•	•	•			•	•		N	Nonylphenol + EO/PO	37251-69-7	5.5
ROKAmin SR8P4			•	•			•		•		N	Tallow Amine + EO/PO	–	8.8
ROKAcet O7				•		•					N	Oleate + 7 EO	9004-96-0	10.6
ROKAmer 2000	•		•						•		N	PEG/PPG Copolymer	9003-11-6	2.4
ROKAmer 2100	•		•	•	•						N	PEG/PPG-Copolymer	9003-11-6	3.4
ROKAmer 2330	•		•	•	•						N	PEG/PPG Copolymer	9003-11-6	4.9
ROKAmer 2400	•		•								N	PEG/PPG Copolymer	9003-11-6	–
ROKAmer 2600			•						•		N	PEG/PPG Copolymer	9003-11-6	5.6
ROKAmer 2950	•	•	•	•	•				•	•	N	PEG/PPG Copolymer	9003-11-6	8.1
ROKAmer G3400			•								N	Glycerine + EO/PO	9082-00-2	–
ROKAmer G3500			•								N	Glycerine + EO/PO	9082-00-2	–

Scouring

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ROKAmer G3800			•								N	Glycerine + EO/PO	9082-00-2	–
ROKAmer GS000E			•								N	Glycerine + EO/PO	9082-00-2	–
ROKAmer PP450			•						•		N	PPG	25322-69-4	–
ROKAmer PP2000		•	•								N	PPG	25322-69-4	–
ROKAmer PP4000			•								N	PPG	25322-69-4	–



Bleaching

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ABS Acid	●	●		●					●		A	Dodecylbenzene Sulfonic Acid	85536-14-7	–
ABS Acid/1	●	●		●					●		A	Dodecylbenzene Sulfonic Acid	85536-14-7	–
ABSNa 30	●	●		●					●		A	Sodium Dodecylbenzenesulfon ate	68411-30-3	–
ABSNa 50	●	●		●					●		A	Sodium Dodecylbenzenesulfon ate	68411-30-3	–
SULFOROKAnol L225/1	●	●					●	●	●		A	Sodium Laureth Sulfate	68891-38-3	–
SULFOROKAnol L227/1	●	●					●	●	●		A	Sodium Laureth Sulfate	68891-38-3	–
SULFOROKAnol L270/1	●	●					●	●	●		A	Sodium Laureth Sulfate	68891-38-3	–
SULFOROKAnol L327	●	●					●	●	●		A	Sodium C12-C15 Pareth Sulfate	68891-38-3	–
ROSULfan D	●	●						●			A	Sodium Decyl Sulfate	142-87-0	–
ROSULfan E	●	●						●			A	Sodium 2-Ethylhexyl Sulfate	126-92-1	–
ROSULfan L	●	●						●			A	Sodium Lauryl Sulfate	85586-07-8	–
ROSULfan O	●	●						●			A	Sodium Octyl Sulphate	142-31-4	–
EXOfos PA–0805		●		●							A	2-Ethylhexyl Ether Phosphate	12645-31-7	–
EXOfos PA–1300						●					A	Tridecyl Ether Phosphate	–	–
EXOfos PB–043K		●	●	●			●	●	●		A	POE (3) Butyl Alcohol Ether Phosphate, Potassium salt	–	–
EXOfos PB–083	●	●	●				●	●	●		A	POE (3) 2-Ethylhexyl Ether Phosphate	68439-39-4	A
EXOfos PB–136	●	●		●		●		●			A	POE (6) Tridecyl Ether Phosphate	9046-01-9	A
EXOfos PB–136B	●	●				●		●			A	POE (6) Tridecyl Ether Phosphate	9046-01-9	A
EXOfos PB–138	●	●				●		●			A	POE (8) Tridecyl Ether Phosphate	39464-69-2	A
EXOfos PB–139	●	●				●		●			A	POE (9) Tridecyl Ether Phosphate	9046-01-9	A
EXOfos PB–184	●	●				●		●			A	POE (4) Oleyl Ether Phosphate	39464-69-2	A
EXOfos PB–264	●	●				●		●			A	POE (4) Lauryl Ether Phosphate	68511-37-5	A
EXOfos PT–E		●	●		●	●					A	POE (16) Tristyrylphenol Ether Phosphate	90093-37-1	–
ROKAnol B2	●	●	●	●					●		N	Alcohols, C16-18 + EO/PO	68002-96-0	6.2
ROKAnol D5	●	●							●		N	Alcohols, C10-16 + 5 EO	78330-20-8	11.9
ROKAnol D7	●	●							●		N	Alcohols, C10-16 + 7 EO	68002-97-1	13.1
ROKAnol NL6	●	●		●	●				●		N	Alcohols, C9-11 + 6 EO	68439-46-3	12.5
ROKAnol NL6W	●	●		●	●				●		N	Alcohols, C9-11 + 6 EO	68439-46-3	–
ROKAnol NL6W/95	●	●		●	●				●		N	Alcohols, C9-11 + 6 EO	68439-46-3	12.5
ROKAnol NL8	●	●		●	●				●		N	Alcohols, C9-11 + 8 EO	68439-46-3	15.7
ROKAnol NL8W	●	●		●	●				●		N	Alcohols, C9-11 + 8 EO	68439-46-3	13.8

Bleaching

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ROKAnol NL8P4	•	•	•	•	•				•		N	Alcohols, C9-11 + EO/PO	103818-93-5	9.5
ROKAnol DB3				•		•			•		N	Alcohols, C12-15 + 3 EO	68131-39-5	7.8
ROKAnol DB5				•		•			•		N	Alcohols, C12-15 + 5 EO	68131-39-5	10.5
ROKAnol DB6	•	•		•							N	Alcohols, C12-15 + 5 EO	68131-39-5	11.4
ROKAnol DB6M	•	•		•							N	Alcohols, C12-15 + 5 EO	68131-39-5	11.4
ROKAnol DB7	•	•		•							N	Alcohols, C12-15 + 7 EO	68131-39-5	12.0
ROKAnol DB7R	•	•		•							N	Alcohols, C12-15 + 7 EO	68131-39-5	12.0
ROKAnol DB7W	•	•		•							N	Alcohols, C12-15 + 7 EO	68131-39-5	12.0
ROKAnol DB9	•	•		•	•			•	•		N	Alcohols, C12-15 + 9 EO	68131-39-5	13.2
ROKAnol EH3				•		•		•			N	Isooctanol + 3 EO	26468-86-0	–
ROKAnol G8						•	•			•	N	Glycereth-8	31694-55-0	14.0
ROKAnol G12						•	•			•	N	Glycereth-12	31694-55-0	17.0
ROKAnol G15						•	•			•	N	Glycereth-15	31694-55-0	17.5
ROKAnol GA3		•	•	•				•			N	Alcohols, C10 + 3 EO	160875-66-1	9.0
ROKAnol GA4		•	•	•				•			N	Alcohols, C10 + 4 EO	160875-66-1	–
ROKAnol GA5		•	•	•				•			N	Alcohols, C10 + 5 EO	160875-66-1	–
ROKAnol GA5W		•	•	•				•			N	Alcohols, C10 + 5 EO	160875-66-1	–
ROKAnol GA6	•	•	•	•				•	•		N	Alcohols, C10 + 6 EO	160875-66-1	12.5
ROKAnol GA7	•	•	•	•				•	•		N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA7LA	•	•	•	•				•	•		N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA7LAW	•	•	•	•				•	•		N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA7W	•	•	•	•				•	•		N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA8	•	•	•	•	•	•	•	•			N	Alcohols, C10 + 8 EO	160875-66-1	14.0
ROKAnol GA8LA	•	•	•	•	•	•					N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA8W	•	•	•	•	•	•					N	Alcohols, C10 + 8 EO	160875-66-1	14.0
ROKAnol GA9		•	•		•		•	•			N	Alcohols, C10 + 9 EO	160875-66-1	14.5
ROKAnol GA9LA		•	•		•		•	•			N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA9W/80		•	•		•		•	•			N	Alcohols, C10 + 9 EO	160875-66-1	–
ROKAnol GT6	•	•		•		•		•			N	Alcohols, C9-16 + 6 EO	97043-91-9	12.0
ROKAnol GT7	•	•		•				•			N	Alcohols, C9-16 + 7 EO	97043-91-9	12.8
ROKAnol GT8	•	•		•	•	•					N	Alcohols, C9-16 + 8 EO	97043-91-9	13.3

Bleaching

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ROKAnol ID5	•	•			•	•					N	Isodecanol + 5 EO	78330-20-8	11.7
ROKAnol ID6	•	•		•							N	Isodecanol + 6 EO	78330-20-8	12.4
ROKAnol ID7	•	•		•							N	Isodecanol + 7 EO	78330-20-8	13.2
ROKAnol ID8	•	•		•							N	Isodecanol + 8 EO	78330-20-8	13.8
ROKAnol IT6	•	•		•		•			•		N	Alcohols, C13, branched + 6 EO	69011-36-5	11.4
ROKAnol IT6R	•	•		•		•			•		N	Alcohols, C13, branched + 6 EO	69011-36-5	11.5
ROKAnol IT7	•	•		•					•		N	Alcohols, C13, branched + 7 EO	69011-36-5	12.1
ROKAnol IT7W	•	•		•					•		N	Alcohols, C13, branched + 7 EO	69011-36-5	12.1
ROKAnol IT8	•	•		•	•	•					N	Alcohols, C13, branched + 8 EO	69011-36-5	12.8
ROKAnol L4	•	•		•					•		N	Alcohols, C12-14 + 4 EO	68439-50-9	10.0
ROKAnol L4P5	•		•	•					•		N	Alcohols, C12-14 + EO/PO	68439-51-0	5.3
ROKAnol L5A		•		•					•		N	Alcohols, C12-16 + 5 EO	68551-12-2	10.5
ROKAnol L5P5	•	•	•	•					•		N	Alcohols, C12-14 + EO/PO	68439-51-0	6.0
ROKAnol L7	•	•		•					•		N	Alcohols, C12-14 + 7 EO	68439-50-9	12.9
ROKAnol L7A	•	•		•					•		N	Alcohols, C12-16 + 7 EO	68551-12-2	12.9
ROKAnol L7W	•	•		•					•		N	Alcohols, C12-14 + 7 EO	68439-50-9	12.9
ROKAnol L9A	•	•		•	•				•		N	Alcohols, C12-16 + 9 EO	–	–
ROKAnol L9AW	•	•		•	•				•		N	Alcohols, C12-16 + 9 EO	–	13.3
ROKAnol L10	•	•		•	•				•		N	Alcohols, C12-14 + 10 EO	68439-50-9	14.1
ROKAnol L10A	•	•		•	•				•		N	Alcohols, C12-16 + 10 EO	68551-12-2	14.1
ROKAnol L10/80	•	•		•	•				•		N	Alcohols, C12-14 + 10 EO	68439-50-9	14.1
ROKAnol L80/50W	•	•	•	•	•				•		N	Alcohol, C12-14 + EO/PO	68439-51-0	17.6
ROKAnol LK1				•		•					N	Alcohols, C12-14 + EO	68439-50-9	3.7
ROKAnol LP2024W/95	•	•	•	•	•	•		•	•		N	Alcohols, C10 + EO/PO	37251-67-5	6.3
ROKAnol LP100	•	•	•		•			•	•		N	Alcohols, C12-15 + EO/PO	120313-48-6	–
ROKAnol LP1319			•								N	Alcohols, C16-18 + EO/PO	68002-96-0	–
ROKAnol LP160		•	•		•			•			N	Alcohols, C12-14 + PO	68439-51-0	–
ROKAnol LP200			•		•			•	•		N	Isodecyl Alcohol + EO/PO	68439-30-5	–
ROKAnol LP2023			•		•						N	Alcohols, C16-18 + EO/PO	68002-96-0	–
ROKAnol LP2126	•		•	•	•			•	•		N	Alcohols, C16-18 + EO/PO	68002-96-0	–
ROKAnol LP2227	•	•	•	•				•	•		N	2-Propylheptanol + EO/PO	166736-08-9	–

Bleaching

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ROKAnol LP2529	•	•	•	•					•		N	Alcohols, C12-14 + EO/PO	68551-13-3	3.5
ROKAnol LP27	•	•	•	•	•			•	•		N	Alcohols, C12-14 + EO/PO	68439-51-0	6.0
ROKAnol LP3135	•	•	•	•					•		N	Alcohols, C9-11 + EO/PO	154518-36-2	–
ROKAnol LP3943	•	•	•						•		N	Alcohols, C12-15 + EO/PO	120313-48-6	–
ROKAnol LP400	•	•	•	•				•	•		N	Isodecyl Alcohol + EO/PO	103818-93-5	–
ROKAnol LP60			•						•		N	Alcohols, C9-11+PO	68920-69-4	–
ROKAnol LP700	•	•	•	•				•			N	Isotridecyl Alcohol + EO/PO	196823-11-7	–
ROKAnol LP911	•	•	•					•			N	Alcohols, C9-11+ EO/PO	102782-43-4	–
ROKAnol NL4	•	•		•	•				•		N	Alcohols, C9-11+ 4 EO	68439-46-3	–
ROKAnol NL5	•	•		•	•				•		N	Alcohols, C9-11 + 5 EO	68439-46-3	11.6
ROKAnol NL6	•	•		•	•				•		N	Alcohols, C9-11 + 6 EO	68439-46-3	12.5
ROKAnol NL6W	•	•		•	•				•		N	Alcohols, C9-11 + 6 EO	68439-46-3	–
ROKAnol NL6W/95	•	•		•	•				•		N	Alcohols, C9-11 + 6 EO	68439-46-3	12.5
ROKAnol NL8	•	•		•	•				•		N	Alcohols, C9-11 + 8 EO	68439-46-3	15.7
ROKAnol NL8W	•	•		•	•				•		N	Alcohols, C9-11 + 8 EO	68439-46-3	13.8
ROKAnol NL8P4	•	•	•	•	•				•		N	Alcohols, C9-11 + EO/PO	103818-93-5	9.5
ROKAnol TMP5	•	•		•	•				•		N	Alcohols, C13-15 + 5 EO	157627-86-6	12
ROKAnol TMP7	•	•		•					•		N	Alcohols, C13-15 + 7 EO	157627-86-6	12
ROKAnol TMP7R	•	•		•					•		N	Alcohols, C13-15 + 7 EO	157627-86-6	12
ROKAnol UD3	•	•		•					•		N	Alcohols, C11-Iso + 3 EO	127036-24-2	8.7
ROKAnol UD5	•	•		•					•		N	Alcohols, C11-Iso + 5 EO	127036-24-2	11.0
ROKAnol UD7	•	•		•		•			•		N	Alcohols, C11-Iso + 7 EO	127036-24-2	12.3
ROKAfenol N7	•	•		•	•			•	•		N	Nonylphenol + 7 EO	127087-87-0	11.5
ROKAfenol N8	•	•		•	•			•	•		N	Nonylphenol + 9 EO	127087-87-0	12.5
ROKAfenol N8P7	•	•	•	•	•			•	•		N	Nonylphenol + EO/PO	37251-69-7	7.7
ROKAfenol N8P14	•	•	•	•	•			•	•		N	Nonylphenol + EO/PO	37251-69-7	5.5
ROKAfenol N9	•	•		•	•			•	•		N	Nonylphenol + 9 EO	127087-87-0	12.8
ROKAmin SR8	•			•			•		•		N	Tallow Amine + 10 EO	61791-26-2	12.4
ROKAmin SR8K	•			•			•		•		N	Tallow Amine + 10 EO	–	12.4
ROKAmin SR8P4			•	•			•		•		N	Tallow Amine + EO/PO	–	8.8
ROKAmin SR11				•			•				N	Tallow Amine + 11 EO	61791-26-2	12.5

Bleaching

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Ionic character	Description	CAS	HLB
ROKAmin SR22							•	•			N	Tallow Amine + 25 EO	61791-26-2	16.1
ROKAmer 1000		•									N	PEG/PPG-Copolymer	9003-11-6	–
ROKAmer 1010	•			•	•						N	PEG/PPG-Copolymer	9003-11-6	16.6
ROKAmer 1010/50	•			•	•						N	PEG/PPG-Copolymer	9003-11-6	16.6
ROKAmer 2000			•						•		N	PEG/PPG Copolymer	9003-11-6	2.4
ROKAmer 2400			•								N	PEG/PPG-Copolymer	9003-11-6	
ROKAmer 2600			•						•		N	PEG/PPG Copolymer	9003-11-6	5.6
ROKAmer 2950	•	•	•	•	•				•	•	N	PEG/PPG-Copolymer	9003-11-6	8.1
ROKAmer G3400			•								N	Glycerine + EO/PO	9082-00-2	–
ROKAmer G3500			•								N	Glycerine + EO/PO	9082-00-2	–
ROKAmer G3800			•								N	Glycerine + EO/PO	9082-00-2	–
ROKAmer G5000E			•								N	Glycerine + EO/PO	9082-00-2	–
ROKAmer PP450			•					•	•		N	PPG	25322-69-4	–
ROKAmer PP2000		•	•								N	PPG	25322-69-4	–
ROKAmer PP4000			•								N	PPG	25322-69-4	–



Dyeing

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Antielectrostatic	Ionic character	Description	CAS	HLB
ROKAfos 1013	●					●			●			A	POE (10) Tridecyl Ether Phosphate	9046-01-9	–
POLIkol 200						●	●				●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 300						●	●			●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 400						●	●			●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 600						●	●			●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 1500					●	●	●			●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 1500 flakes					●	●	●			●	●	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 2000		●	●									N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 2000 flakes		●	●									N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 6000						●	●					N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 6000 flakes						●	●					N	Polyoxyethylene glycol	25322-68-3	–
ROKAnol GA7	●	●	●	●					●	●		N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA7LA	●	●	●	●					●	●		N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA7LAW	●	●	●	●					●	●		N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA7W	●	●	●	●					●	●		N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA8LA	●	●	●	●	●	●						N	Alcohols, C10 + 9 EO	160875-66-1	14.5
ROKAnol GA9		●	●		●			●	●			N	Alcohols, C10 + 9 EO	160875-66-1	14.5
ROKAnol GA9LA		●	●		●			●	●			N	Alcohols, C10 + EO/PO	166736-08-9	–
ROKAnol GA9W/80		●	●		●			●	●			N	Alcohols, C10 + 9 EO	160875-66-1	–
ROKAnol GT5		●				●						N	Alcohols, C9-16 + 5 EO	97043-91-9	10.7
ROKAnol GT6	●	●		●		●						N	Alcohols, C9-16 + 6 EO	97043-91-9	12.0
ROKAnol GT7	●	●		●		●		●	●			N	Alcohols, C9-16 + 7 EO	97043-91-9	12.8
ROKAnol GT8	●	●		●	●	●		●	●			N	Alcohols, C9-16 + 8 EO	97043-91-9	13.3
ROKAnol GT9	●	●			●		●	●	●			N	Alcohols, C9-16 + 9 EO	97043-91-9	–
ROKAnol GT9W	●	●			●			●	●			N	Alcohols, C9-16 + 9 EO	97043-91-9	–
ROKAnol GT10	●	●			●			●	●			N	Alcohols, C9-16 + 10 EO	97043-91-9	–
ROKAnol GT10W	●	●			●			●	●			N	Alcohols, C9-16 + 10 EO	97043-91-9	–
ROKAnol GT12		●			●			●				N	Alcohols, C9-16 + 12 EO	97043-91-9	15.0
ROKAnol ID5	●	●			●	●						N	Isodecanol + 5 EO	78330-20-8	11.7
ROKAnol ID6	●	●		●								N	Isodecanol + 6 EO	78330-20-8	12.4
ROKAnol ID7	●	●		●								N	Isodecanol + 7 EO	78330-20-8	13.2

Dyeing

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Antielectrostatic	Ionic character	Description	CAS	HLB
ROKAnol ID8	•	•		•					•			N	Isodecanol + 8 EO	78330-20-8	13.8
ROKAnol IT5		•		•					•			N	Alcohols, C13, branched + 5 EO	69011-36-5	10.5
ROKAnol IT6	•	•		•		•			•			N	Alcohols, C13, branched + 6 EO	69011-36-5	11.4
ROKAnol IT6R	•	•		•		•			•			N	Alcohols, C13, branched + 6 EO	69011-36-5	11.5
ROKAnol IT7	•	•		•					•			N	Alcohols, C13, branched + 7 EO	69011-36-5	12.1
ROKAnol IT7W	•	•		•					•			N	Alcohols, C13, branched + 7 EO	69011-36-5	12.1
ROKAnol IT8	•	•		•	•	•						N	Alcohols, C13, branched + 8 EO	69011-36-5	12.8
ROKAnol IT9		•			•			•	•			N	Alcohols, C13, branched + 9 EO	69011-36-5	13.3
ROKAnol IT9W		•			•			•	•			N	Alcohols, C13, branched + 9 EO	69011-36-5	13.3
ROKAnol IT10		•		•	•			•	•			N	Alcohols, C13, branched + 10 EO	69011-36-5	13.8
ROKAnol IT12		•			•			•	•			N	Alcohols, C13, branched + 12 EO	69011-36-5	14.5
ROKAnol IT12R		•			•			•	•			N	Alcohols, C13, branched + 12 EO	69011-36-5	14.5
ROKAnol IT20		•			•			•	•			N	Alcohols, C13-Iso + 20 EO	69011-36-5	15.9
ROKAnol K18		•		•	•			•	•			N	Alcohols, C16-18 unsaturated + 18 EO	68920-66-1	16.3
ROKAnol K21		•		•	•							N	Alcohols, C16-18 unsaturated + 21 EO	68920-66-1	16.5
ROKAnol L4	•	•		•					•			N	Alcohols, C12-14 + 4 EO	68439-50-9	10.0
ROKAnol L4P5	•		•	•					•			N	Alcohols, C12-14 + EO/PO	68439-51-0	5.3
ROKAnol L5A		•		•					•			N	Alcohols, C12-16 + 5 EO	68551-12-2	10.5
ROKAnol L5P5	•	•	•	•					•			N	Alcohols, C12-14 + EO/PO	68439-51-0	6.0
ROKAnol L7	•	•		•					•			N	Alcohols, C12-14 + 7 EO	68439-50-9	12.9
ROKAnol L7A	•	•		•					•			N	Alcohols, C12-16 + 7 EO	68551-12-2	12.9
ROKAnol L7W	•	•		•					•			N	Alcohols, C12-14 + 7 EO	68439-50-9	12.9
ROKAnol L9A		•			•			•	•			N	Alcohols, C12-16 + 9 EO	–	–
ROKAnol L9AW		•			•			•	•			N	Alcohols, C12-16 + 9 EO	–	13.3
ROKAnol L10	•	•		•	•				•			N	Alcohols, C12-14 + 10 EO	68439-50-9	14.1
ROKAnol L10A	•	•		•	•				•			N	Alcohols, C12-16 + 10 EO	68551-12-2	14.1
ROKAnol L10/80	•	•		•	•				•			N	Alcohols, C12-14 + 10 EO	68439-50-9	14.1
ROKAnol L80/50W	•	•	•	•	•				•			N	Alcohol, C12-14 + EO/PO	68439-51-0	17.6
ROKAnol LK1				•		•						N	Alcohols, C12-14 + EO	68439-50-9	3.7
ROKAnol LP2024W/95	•	•	•	•	•	•		•	•			N	Alcohols, C10 + EO/PO	37251-67-5	6.3
ROKAnol LP100	•	•	•		•			•	•			N	Alcohols, C12-15 + EO/PO	120313-48-6	–

Dyeing

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Antielectrostatic	Ionic character	Description	CAS	HLB
ROKAnol LP1319			•									N	Alcohols, C16-18 + EO/PO	68002-96-0	–
ROKAnol LP160		•	•		•			•				N	Alcohols, C12-14 + PO	68439-51-0	–
ROKAnol LP200			•		•			•	•			N	Isodecyl Alcohol + EO/PO	68439-30-5	–
ROKAnol LP2023			•		•							N	Alcohols, C16-18 + EO/PO	68002-96-0	–
ROKAnol LP2126	•		•	•	•			•	•			N	Alcohols, C16-18 + EO/PO	68002-96-0	–
ROKAnol LP2227	•	•	•	•	•			•	•			N	2-Propylheptanol + EO/PO	166736-08-9	–
ROKAnol LP2529	•	•	•	•					•			N	Alcohols, C12-14 + EO/PO	68551-13-3	3.5
ROKAnol LP27	•	•	•	•	•			•	•			N	Alcohols, C12-14 + EO/PO	68439-51-0	6.0
ROKAnol LP3135	•	•	•	•					•			N	Alcohols, C9-11 + EO/PO Isodecyl	154518-36-2	–
ROKAnol LP400	•	•	•	•					•	•		N	Alcohol + EO/PO	103818-93-5	–
ROKAnol LP60			•							•		N	Alcohols, C9-11+PO	68920-69-4	–
ROKAnol LP700	•	•	•	•					•			N	Isotridecyl Alcohol + EO/PO	196823-11-7	–
ROKAnol LP911	•	•	•						•			N	Alcohols, C9-11+ EO/PO	102782-43-4	–
ROKAnol MT5E	•	•		•					•			N	Alcohols, C8-18 + 5 EO	157707-43-2	–
ROKAnol MT7E	•	•		•					•			N	Alcohols, C8-18 + 7 EO	157707-43-2	–
ROKAnol NL3	•	•		•	•				•			N	Alcohols, C9-11 + 3 EO	68439-46-3	8.5
ROKAnol NL4	•	•		•	•				•			N	Alcohols, C9-11+ 4 EO	68439-46-3	–
ROKAnol NL5	•	•		•	•				•			N	Alcohols, C9-11 + 5 EO	68439-46-3	11.6
ROKAnol NL6	•	•		•	•				•			N	Alcohols, C9-11 + 6 EO	68439-46-3	12.5
ROKAnol NL6W	•	•		•	•				•			N	Alcohols, C9-11 + 6 EO	68439-46-3	–
ROKAnol NL6W/95	•	•		•	•				•			N	Alcohols, C9-11 + 6 EO	68439-46-3	12.5
ROKAnol NL8	•	•		•	•				•			N	Alcohols, C9-11 + 8 EO	68439-46-3	15.7
ROKAnol NL8W	•	•		•	•				•			N	Alcohols, C9-11 + 8 EO	68439-46-3	13.8
ROKAnol NL8P4	•	•	•	•	•				•			N	Alcohols, C9-11 + EO/PO	103818-93-5	9.5
ROKAnol T6				•	•							N	Alcohols, C16-18 + 6 EO	68439-49-6	10
ROKAnol T12				•	•							N	Alcohols, C16-18 + 12 EO	68439-49-6	13.5
ROKAnol T18				•	•			•				N	Alcohols, C16-18 + 18 EO	68439-49-6	16.3
ROKAnol T18W				•	•			•				N	Alcohols, C16-18, ethoxylated Aqueous solution	–	–
ROKAnol T20				•	•			•				N	Alcohols, C16-18 + 20 EO	68439-49-6	15.3
ROKAnol T20 flakes				•	•			•				N	Alcohols, C16-18 + 20 EO	68439-49-6	15.3
ROKAnol T25				•	•			•				N	Alcohols, C16-18 + 25 EO	68439-49-6	16

Dyeing

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Antielectrostatic	Ionic character	Description	CAS	HLB
ROKAnol T25 flakes				•	•			•				N	Alcohols, C16-18 + 25 EO	68439-49-6	16
ROKAnol TMP3	•	•		•					•			N	Alcohols, C13-15 + 3 EO	157627-86-6	–
ROKAnol TMP5	•	•		•	•				•			N	Alcohols, C13-15 + 5 EO	157627-86-6	12
ROKAnol TMP7	•	•		•					•			N	Alcohols, C13-15 + 7 EO	157627-86-6	12
ROKAnol TMP7R	•	•							•			N	Alcohols, C13-15 + 7 EO	157627-86-6	12
ROKAnol UD5	•	•		•					•			N	Alcohols, C11-Iso + 5 EO	127036-24-2	11.0
ROKAnol UD7	•	•		•		•			•			N	Alcohols, C11-Iso + 7 EO	127036-24-2	12.3
ROKAfenol N7	•	•		•	•			•	•			N	Nonylphenol + 7 EO	127087-87-0	11.5
ROKAfenol N8	•	•		•	•			•	•			N	Nonylphenol + 9 EO	127087-87-0	12.5
ROKAfenol N8P7	•	•	•	•	•			•	•			N	Nonylphenol + EO/PO	37251-69-7	7.7
ROKAfenol N8P14	•	•	•	•	•			•	•			N	Nonylphenol + EO/PO	37251-69-7	5.5
ROKAfenol N9	•	•		•	•			•	•			N	Nonylphenol + 9 EO	127087-87-0	12.8
ROKAmid MRZ17				•	•							N	Glycerol Rapeate + 17 EO	221045-17-6	–
ROKAmid RAD				•	•							N	C16-18 and C18- unsatd	68603-38-3	–
ROKAmin K15				•			•					N	Cocamine + 15 EO	61791-14-8	15.5
ROKAmin SR5				•			•					N	Tallow Amine + 5.8 EO	61791-26-2	9.8
ROKAmin SR8	•			•			•					N	Tallow Amine + 10 EO	61791-26-2	12.4
ROKAmin SR8K	•			•			•					N	Tallow Amine + 10 EO	–	12.4
ROKAmin SR8P4			•	•			•		•			N	Tallow Amine + EO/PO	–	8.8
ROKAmin SR11				•			•					N	Tallow Amine + 11 EO	61791-26-2	12.5
ROKAmin SR22								•	•			N	Tallow Amine + 25 EO	61791-26-2	16.1
ROKAcet R11				•	•			•		•		N	Castor Oil + 11 EO	61791-12-6	–
ROKAcet R26				•	•			•				N	Castor oil + 26 EO	61791-12-6	11.0
ROKAcet R36				•	•			•				N	Castor Oil + 36 EO	61791-12-6	–
ROKAcet R40				•	•			•				N	Castor oil + 40 EO	61791-12-6	13.0
ROKAcet R70					•			•				N	Castor oil + 70 EO	61791-12-6	15.4
ROKAcet RZ17				•	•			•				N	Fatty Acid Glycerol Ester, C14-18 + 17 EO	70914-02-2	–
ROKAmer 1000			•									N	PEG/PPG-Copolymer	9003-11-6	–
ROKAmer 1010	•		•	•	•							N	PEG/PPG-Copolymer	9003-11-6	16.6
ROKAmer 1010/50	•		•	•	•							N	PEG/PPG-Copolymer	9003-11-6	16.6
ROKAmer 2000			•						•			N	PEG/PPG Copolymer	9003-11-6	2.4

Dyeing

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Antielectrostatic	Ionic character	Description	CAS	HLB
ROKAmer 2100	•		•	•	•							N	PEG/PPG-Copolymer	9003-11-6	3.4
ROKAmer 2330	•		•	•	•							N	PEG/PPG-Copolymer	9003-11-6	4.9
ROKAmer 2400			•									N	PEG/PPG-Copolymer	9003-11-6	
ROKAmer 2600			•						•			N	PEG/PPG Copolymer	9003-11-6	5.6
ROKAmer 2950	•	•	•	•	•				•	•		N	PEG/PPG-Copolymer	9003-11-6	8.1
ROKAmer G3400			•									N	Glycerine + EO/PO	9082-00-2	–
ROKAmer G3500			•									N	Glycerine + EO/PO	9082-00-2	–
ROKAmer G3800			•									N	Glycerine + EO/PO	9082-00-2	–
ROKAmer G5000E			•									N	Glycerine + EO/PO	9082-00-2	–
ROKAmer PP450			•						•	•		N	PPG	25322-69-4	–
ROKAmer PP2000		•	•									N	PPG	25322-69-4	–
ROKAmer PP4000			•									N	PPG	25322-69-4	–
ROKwin 60				•								N	Sorbitan Monostearate	1338-43-8	4.7
ROKwin 80				•								N	Sorbitan Monooleate	1338-43-8	–
ROKwinol 20				•								N	Sorbitan Monooleate + 20 EO	9005-64-5	15.0
ROKwinol 60				•								N	Polyoxyethylene sorbitan monostearate	9005-67-8	–
ROKwinol 80				•								N	Sorbitan Monooleate + 20 EO	9005-65-6	–



Finishing

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Antielectrostatic	Ionic character	Description	CAS	HLB
EXOfos PA-080S		•		•								A	2-Ethylhexanol phosphate	12645-31-7	–
EXOfos PB-043K		•	•	•			•	•	•			A	Poly(oxy-1,2-ethanediyl), α-butyl-ωhydroxy-, phosphate, potassium salt	–	–
EXOfos PB-083	•	•	•				•	•	•			A	POE (3) 2-Ethylhexyl Phosphate	68439-39-4	–
EXOfos PB-138	•	•				•		•				A	POE (8) Tridecyl Ether Phosphate	9046-01-9	–
EXOfos PB-184	•	•				•		•				A	Oleyl alcohol phosphorus ester, ethoxylated	39464-69-2	–
POLIkol 200							•	•		•	•	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 300							•	•		•	•	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 400							•	•		•	•	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 600							•	•		•	•	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 1500						•	•	•		•	•	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 1500 flakes						•	•	•		•	•	N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 2000		•	•									N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 2000 flakes		•	•									N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 6000							•	•				N	Polyoxyethylene glycol	25322-68-3	–
POLIkol 6000 flakes							•	•				N	Polyoxyethylene glycol	25322-68-3	–
ROKAnol DB3				•		•			•			N	Alcohols, C12-15 + 3 EO	68131-39-5	7.8
ROKAnol DB5				•		•			•			N	Alcohols, C12-15 + 5 EO	68131-39-5	10.5
ROKAnol DB6				•		•			•			N	Alcohols, C12-15 + 5 EO	68131-39-5	11.4
ROKAnol DB6M				•		•			•			N	Alcohols, C12-15 + 5 EO	68131-39-5	11.4
ROKAnol DB7	•	•		•					•			N	Alcohols, C12-15 + 7 EO	68131-39-5	12.0
ROKAnol DB7R	•	•		•					•			N	Alcohols, C12-15 + 7 EO	68131-39-5	12.0
ROKAnol DB7W	•	•		•					•			N	Alcohols, C12-15 + 7 EO	68131-39-5	12.0
ROKAnol DB9	•	•		•					•			N	Alcohols, C12-15 + 9 EO	68131-39-5	13.2
ROKAnol DB11W	•	•		•					•			N	Alcohols, C12-15 + 11 EO	68131-39-5	13.6
ROKAnol EH3				•		•		•				N	Isooctanol + 3 EO	26468-86-0	–
ROKAnol G8						•	•			•		N	Glycereth-8	31694-55-0	14.0
ROKAnol G12						•	•			•		N	Glycereth-12	31694-55-0	17.0
ROKAnol G12						•	•			•		N	Glycereth-15	31694-55-0	17.5
ROKAnol GA7	•	•	•	•					•			N	Alcohols, C10 + 7 EO	160875-66-1	13.0
ROKAnol GA7LA	•	•	•	•					•			N	Alcohols, C10 + EO/PO	166736-08-9	–

Finishing

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Antielectrostatic	Ionic character	Description	CAS	HLB
ROKAnol GA7LAW	•	•	•	•					•			N	Alcohols, C10 + EO/PO	166736–08–9	–
ROKAnol GA7W	•	•	•	•					•			N	Alcohols, C10 + 7 EO	160875–66–1	13.0
ROKAnol GT7	•	•		•		•		•	•			N	Alcohols, C9–16 + 7 EO	97043–91–9	12.8
ROKAnol GT8	•	•		•	•	•	•	•	•			N	Alcohols, C9–16 + 8 EO	97043–91–9	13.3
ROKAnol GT9	•	•			•			•	•			N	Alcohols, C9–16 + 9 EO	97043–91–9	–
ROKAnol GT9W	•	•			•			•	•			N	Alcohols, C9–16 + 9 EO	97043–91–9	–
ROKAnol ID5	•	•			•	•						N	Isodecanol + 5 EO	78330–20–8	11.7
ROKAnol ID6	•	•		•								N	Isodecanol + 6 EO	78330–20–8	12.4
ROKAnol ID7	•	•		•								N	Isodecanol + 7 EO	78330–20–8	13.2
ROKAnol IT7	•	•		•					•			N	Alcohols, C13, branched + 7 EO	69011–36–5	12.1
ROKAnol IT7W	•	•		•					•			N	Alcohols, C13, branched + 7 EO	69011–36–5	12.1
ROKAnol IT8	•	•		•	•	•						N	Alcohols, C13, branched + 8 EO	69011–36–5	12.8
ROKAnol IT9		•			•			•	•			N	Alcohols, C13, branched + 9 EO	69011–36–5	13.3
ROKAnol IT9W		•			•			•	•			N	Alcohols, C13, branched + 9 EO	69011–36–5	13.3
ROKAnol LK2		•		•		•			•			N	Alcohols, C12–14 + 2 EO	68439–50–9	6.2
ROKAnol LK3		•		•		•			•			N	Alcohols, C12–14 + 3 EO	68439–50–9	7.8
ROKAnol MT5E	•	•		•						•		N	Alcohols, C8–18 + 5 EO	157707–43–2	–
ROKAnol MT7E	•	•		•						•		N	Alcohols, C8–18 + 7 EO	157707–43–2	–
ROKAnol NL4	•	•		•	•							N	Alcohols, C9–11 + 4 EO	68439–46–3	–
ROKAnol NL5	•	•		•	•				•			N	Alcohols, C9–11 + 5 EO	68439–46–3	11.6
ROKAnol NL6	•	•		•	•				•			N	Alcohols, C9–11 + 6 EO	68439–46–3	12.5
ROKAnol NL6W	•	•		•	•				•			N	Alcohols, C9–11 + 6 EO	68439–46–3	–
ROKAnol NL6W/95	•	•		•	•				•			N	Alcohols, C9–11 + 6 EO	68439–46–3	12.5
ROKAnol NL8	•	•		•	•				•			N	Alcohols, C9–11 + 8 EO	68439–46–3	15.7
ROKAnol NL8W	•	•		•	•				•			N	Alcohols, C9–11 + 8 EO	68439–46–3	13.8
ROKAnol NL8P4	•	•	•	•	•				•			N	Alcohols, C9–11 + EO/PO	103818–93–5	9.5
ROKAnol O3		•		•	•				•	•		N	Oleyl Alcohol + 3 EO	9004–98–2	7.1
ROKAnol O5		•		•	•				•	•		N	Oleyl Alcohol + 5 EO	9004–98–2	9.1
ROKAnol O18		•		•	•				•	•		N	Oleyl Alcohol + 18 EO	9004–98–2	16.3
ROKAnol O20		•		•	•				•	•		N	Oleyl Alcohol + 20 EO	9004–98–2	15.3
ROKAnol O100		•			•				•			N	Oleyl Alcohol + 100 EO	9004–98–2	18.8

Finishing

Product	Wetting	Degreasing	Antifoaming/ Low foaming	Emulsifying	Dispersing	Lubrication	Levelling	Dye removal	Cleaning	Softening	Antielectrostatic	Ionic character	Description	CAS	HLB
ROKAnol TMP5	•	•		•	•				•			N	Alcohols, C13–15 + 5 EO	157627–86–6	12
ROKAnol TMP7	•	•		•					•			N	Alcohols, C13–15 + 7 EO	157627–86–6	12
ROKAnol TMP7R	•	•		•					•			N	Alcohols, C13–15 + 7 EO	157627–86–6	12
ROKAnol UD5	•	•		•					•			N	Alcohols, C11–Iso + 5 EO	127036–24–2	11.0
ROKAnol UD7	•	•		•		•			•			N	Alcohols, C11–Iso + 7 EO	127036–24–2	12.3
ROKAmin K15K	•	•		•	•		•	•		•	•	C	Cocamine + 15 EO, Methosulfate	68989–03–7	–
ROKAmin SRK8	•	•		•	•		•	•		•	•	C	Tallow Amine + 8 EO, Methosulfate	73138–81–5	–
ROKAcet K7				•		•				•	•	N	Cocoate + 7 EO	61791–29–5	11.6
ROKAcet KO300G				•		•					•	N	Glyceryl Cocoate + 7 EO	68201–46–7	–
ROKAcet R11				•	•		•			•		N	Castor Oil + 11 EO	61791–12–6	–
ROKAcet R26				•	•		•			•		N	Castor oil + 26 EO	61791–12–6	11.0
ROKAcet R36				•	•		•			•		N	Castor Oil + 36 EO	61791–12–6	–
ROKAcet R40				•	•		•				•	N	Castor oil + 40 EO	61791–12–6	13.0
ROKAcet S7					•					•		N	Stearate + 7 EO	9004–99–3	10.6
ROKAcet S24					•					•		N	Stearate + 24 EO	9004–99–3	15.8
ROKAmer 2950	•	•	•	•	•				•	•		N	PEG/PPG–Copolymer	9003–11–6	8.1
ROKAmer PP450		•	•	•					•	•		N	PPG	25322–69–4	–
ROKwinol 20			•									N	Sorbitan Monooleate + 20 EO	9005–64–5	15.0
ROKwinol 60			•									N	Polyoxyethylene sorbitan monostearate	9005–67–8	–
ROKwinol 80			•									N	Sorbitan Monooleate + 20 EO	9005–65–6	–
Tequat LC90i		•		•	•		•	•		•	•	C	Dihydrogenated Tallowethyl Hydroxyethylmonium Methosulfate & Ditallowethyl Hydroxyethylmonium Methosulfate	–	–
EXOdemul S11	•	•	•	•	•					•		MIX	PEG/PPG–Copolymer	–	–
EXOdemul WD–18	•	•	•	•	•					•		MIX	PEG/PPG–Copolymer	9003–11–6	–





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