

Synthetic firefighting foams

Proven solutions for firefighting



PCC EXOL SA

Sustainable technologies for new generations



PCC EXOL SA is a combination of innovative technology with experience in design and production of surfactants and chemical formulations.

PCC EXOL SA combines state-of-the-art technologies and extensive experience in the production of surfactants. The company is headquartered in Brzeg Dolny where production plants for anionic, nonionic and amphoteric surfactants are located. Flexibility of production allows the Company to offer a wide range of surfactants and industrial formulations, often designed to meet the individual needs of customers operating in various industries. PCC EXOL SA, as one of the leading manufacturers of surfactants, realizes new investments and implements innovative technologies based on world trends in sustainable development.

The surfactants offered by the Company are very widely used. In addition to the mass production of hygiene measures, cosmetics and detergents, PCC EXOL SA offers also a specialty product used in many different industries such as textiles, paints, varnishes, agrochemicals, metalworking, oil industry, building and construction industries, paper industries, mining industries and much more.

Versatile product portfolio is constantly being enriched with new, innovative products that enable the Company to meet even the most strict market demands and adapt to the individual needs of its customers. This is possible thanks to the dynamic development of the research base, the flexibility of the production and the knowledge and experience of the employees. PCC EXOL SA has key competences to produce surfactants on a global scale. Commenced and soon-to-be-launched investments will soon open new opportunities for the Company to further expand into new markets.

The company offers not only a comprehensive product portfolio and professional service, but also the flexibility of production and complex system solutions. The strategic investor of PCC EXOL SA is PCC SE, which operates on international markets for chemical raw materials, transport, energy, coal, coke, fuels, plastics and metallurgy.

Roteor M series products:

- ✓ Foam extinguishing agents.
- ✓ Products designed to produce mechanical fire extinguishing foams of all grades using tap water (Roteor M3 Premium, Roteor M Premium, Roteor M3SP, Roteor M, Roteor M6 – high expansion foam) and sea water (Roteor M Premium).
- ✓ Firefighting agents for class A fire (solids) and class B fire (liquids immiscible with water) according to PN-EN 2: 1998 / A1: 2006
- ✓ Wetting agents in the concentration range of 0.5 to 1%.

For the production of firefighting foam from aqueous solutions of Roteor M products you can use, among others: nozzles, foam cannons, foam generators.

Product information

Product name	Roteor M Premium	Roteor M3 Premium	Roteor M	Roteor M3SP	Roteor M6
Foam expansion class	Low, medium, high				high
Concentration	3%				6%
Exterior appearance at 20-25°C	Blue to green liquid				
pH	6.5 - 9.5	6.5 - 9.5	6.5 - 7.5	6.5 - 9.0	6.5 - 8.5
Density at 20 °C [g/cm ³]	about 1.058	about 1.058	about 1.020	about 1.043	about 1.035
Freezing point [°C]	-15 +/- 2	-16 +/- 2	-11 +/- 2	-16 +/- 2	-11 +/- 2
Minimum temperature for application [°C]	-13	-14	-8	-13	-8
Kinematic viscosity At 20°C [mm ² /s]	max 10	max 12	max 7.5	max 10	max 5
Precipitate [%]	max 0.1	max 0.1	max 0.1	max 0.1	max 0.1
Firefighting class	III B (tap water) III C (sea water)	III B (tap water)	III C (tap water)	III D (tap water)	III C (tap water)
Scientific and Research Centre for Fire Protection Approval certificate	No. 2851/2017	No. 2332/2015	No. 0944/2011	No. 1410/2012	No. 1044/2011
Certificate expiry date	14.03.2022 r.	15.03.2020 r.	30.05.2016 r.	28.11.2017 r.	11.09.2016 r.
NIPH-NIH attestation	NIPH-NIH/HT-3149/2016	NIPH-NIH/HT-2922/2014	NIPH-NIH/HT-2920/2014	NIPH-NIH/HT-2680/2012	NIPH-NIH/HT-2914/2014

Features of Roteor M series products:

- ✓ High durability of foam and resistance to fire relapse, thanks to the specially selected high-performance surfactants resistant to foam condensation used in the production process
- ✓ They contain specially selected corrosion inhibitors, substances that lower the freezing point and stabilize the foam.
- ✓ They can be mixed with similar synthetic foam extinguishers additives before use.
- ✓ They are biodegradable.
- ✓ If stored in accordance with the manufacturer's instructions, may have a validity period of up to 20 years.
- ✓ High effectiveness in firefighting.



PCC Group – Industrial Park in Brzeg Dolny

PCC Rokita SA

GK PCC Rokita, 22 companies, including:

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- PCC Prodex GmbH (Germany)
- PCC PU Sp. z o.o.
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GK PCC EXOL, 5 companies, including:

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- PCC Chemax Inc. (USA)
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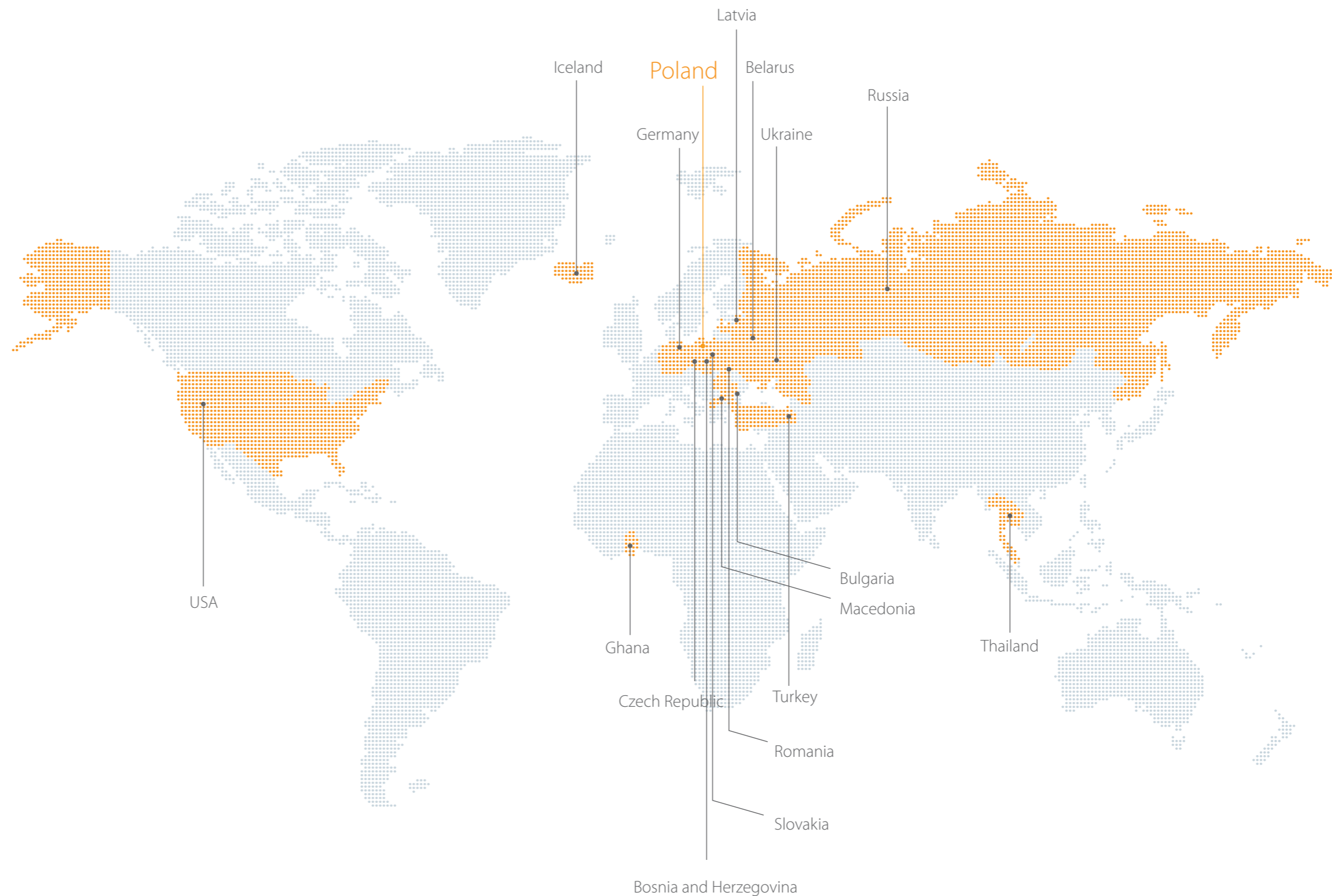
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Chemistry*