

■ PROCESS OPTIMISATION



SYSTEM ANALYSIS

We evaluate the actual state of industrial and municipal water and wastewater plants; we log your operating data and subsequently carry out extensive analyses.

CALCULATION OF PROFITABILITY

We evaluate procedural applications and attune our service to them, so that the optimum use of our products is guaranteed on site.



SELECTION OF PRODUCTS

Subsequent to the evaluation of the system analysis the appropriate product is chosen among the wide range of auxiliary materials and additives for industrial, drinking and waste water treatment and odour control. The appropriate products are selected in laboratory trials and full scale tests.



SOLUTIONS

On the basis of the systems analysis, the calculation of profitability, the applications engineering, and our know-how we offer our customers comprehensive concepts for the implementation of both ecologically and economically interesting solutions.



LOGISTICS

Our aim is to supply you with the right product at the right time and the right place. Our own storehouse at the logistics and mechanical engineering centre Scheibbs allows rapid delivery and the precise tracing of charge numbers. Our online delivery tracing service allows us to give you a concrete delivery date whenever you wish.

acat.com

■ OUR FURTHER DELIVERY PROGRAMME

■ PAPER TECHNOLOGY

- Polymers / Bentonites
- Cationic / Anionic Polymers
- Fixatives / Bentonites
- Modified Bentonites
- Defoamers and Deaerators
- Synthetic Thickeners
- Carboxymethylcellulose
- Polyvinylalcohol
- Starch and Starch Derivatives
- Deodorisers
- Special Products
- Machinery & Equipment
- Consulting Service and System Analyses

■ INDUSTRIAL CHEMICALS

- Defoamers (liquid)
- Defoamers (powder)
- Wetting and Dispersion Agents (liquid and powder)
- Various Special Chemicals
- Special Defoamers
- Various Fillers
- Preservatives
- Special Pigments and Dyestuffs
- Waxes

■ MACHINERY & PLANT ENGINEERING

- Solar Sewage Sludge Drying
- Complete Solutions and Unit Components for Mechanical Sludge Drying
- Process Engineering
- Unit Components for Mechanical Waste Water Treatment
- Odourjet Compact Systems
- Spares

**A P P L I E D
C H E M I C A L S
A N W E N D U N G S
T E C H N I K**

Technical Service is our Success



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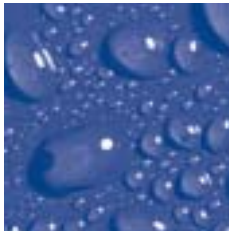
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ENVIRONMENTAL ENGINEERING



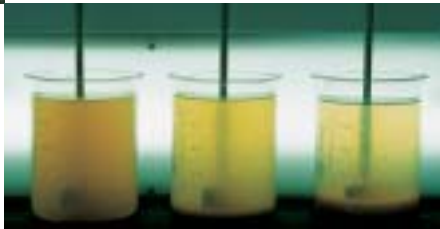
Our strong points:

- Application engineering
- Fine chemicals and special products
- Make up and dosing systems
- Process optimisation

■ FINE CHEMICALS AND SPECIAL PRODUCTS

ORGANIC POLYMERES

The highly effective, synthetic flocculants were particularly developed for the solid/liquid separation in the treatment of municipal and industrial effluents and sludge. They are high-molecular, soluble polymers on the basis of acrylamid and its co-polymers. The polyelectrolytes of this set of products cover a wide scope of molecular weights and charges and thus ensure the effective flocculation of the most different media. The products are available in solid, liquid and dispersion form.



PRECIPITANTS

Our delivery programme:

- Ferric Sulphate
- Polyaluminiumchloride (PAC)
- Sodium aluminate
- Aluminium sulphate

Usage of precipitants:

- Phosphate elimination
- Prevention of sludge bulking
- Sludge conditioning
- Hydrogen sulphide elimination
- Enhanced primary clarification
- Industrial water treatment
- Drinking and service water treatment



ODOUR CONTROL

Whether sewer systems, pumping units, sanitary landfills, or chemical works – depending on the site, of the kind of odour and the intensity of the nuisance – we have the proper solution for you:

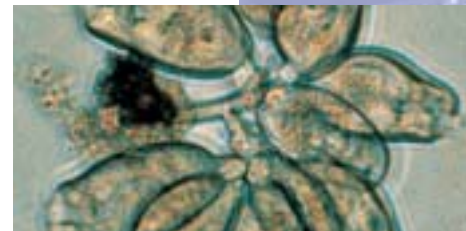


- 1 Odour neutralisation by superfine dispersion of ethereal oils,
- 2 Odour neutralisation by means of ethereal oils in hard fibre bricks,
- 3 Dosing of nitrates to sustain aerobic conditions in sewer systems,
- 4 Microbiological systems.

BIOCHEMICAL PRODUCTS

Fields of application:

- Improving sludge properties,
- Degradation of specific, partly toxic substrates,
- Composting,
- Odour control,
- Accelerating development of biomass in biological purification plants,
- Raising the capacity of seasonally overloaded purification plants,
- Controlling the proliferation of filamentous organisms,
- Restoring and preserving the nitrification in treatment plants with low sludge age.





DEFOAMERS AND DEAERATORS

Defoamers and deaerators are highly effective products supporting wastewater and sludge treatment processes by preventing foam formation.



DRINKING WATER PROCESSING

The flocculants are based on polyacrylamide and were particularly developed for drinking water processing. This product is of great advantage in water purification, filtration, the processing of filter back-washings, sludge thickening and dewatering.

This line corresponds to the European Standard EN 1407 for non-ionic and anionic products, as well as EN 1410 for cationic products. In addition, the requirements of the British Drinking Water Inspectorate as to use in drinking water processing are met.

SPECIAL PRODUCTS

ADSORBENT

This product is used by itself or in combination with flocculants for the treatment of industrial effluents.

FLOTATION ADDITIVES

They are used for easier separation of particles or solid matter in flotation units.

DEPOSIT CONTROL AGENT

This product prevents or eliminates deposits in pipelines, e.g. Struvit (Struvit-ammoniummagnesiumphosphat).



DECOLOURISATION

These products are proven precipitation and flocculation agents and are successfully used in the textile and paper industry throughout the world. They are particularly suited for de-inking effluents from the textile, leather and paper industry.



■ MAKE UP AND DOSING SYSTEMS

POLYMER MAKE UP UNITS

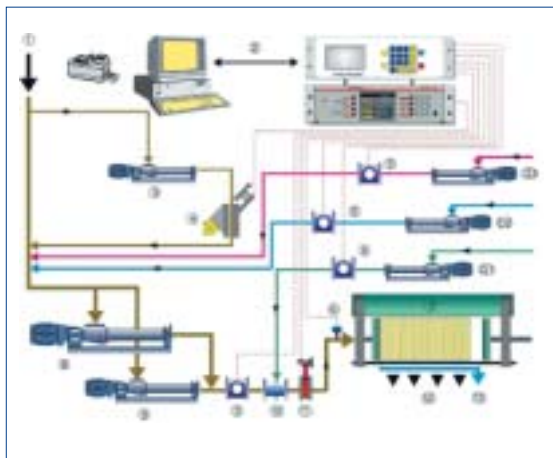
20 years of experience in polymer processing and dosing allowed the development of nearly service-free make up and dosage units of any size and for any application field.



POLYKON-PROCESS

This process is used for polymer conditioning and feeding control on membrane and chamber filter presses. The system is mainly used for volume and mass proportional dosing of flocculants and the optimised pressure-dependent control of the sludge feeding pump and the dosing pump.

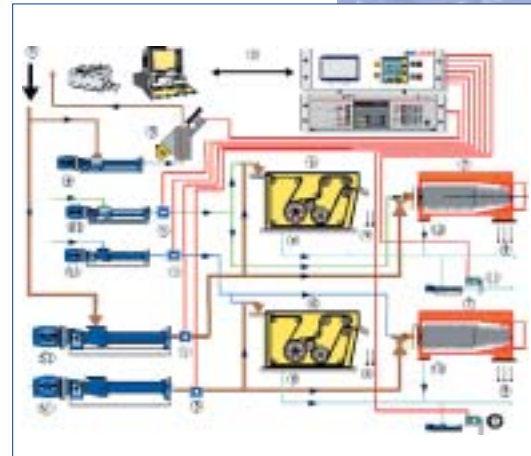
The Polykon-process is used for sludge dewatering, industrial wastewater treatment and in purification technology. It can also be integrated into existing sludge dewatering units and existing parts can partly be integrated into the process.



ALCOTECH DS-PROCESS

This process is used to control dosing for centrifuges, belt-filter presses, for thickeners and flotations. The key features are the computer-assisted automation of sludge dewatering and thickening.

The computer allows specific, economical dosing of polymers in relation to the dry matter content of the sludge at the mouth to the centrifuge and belt-filter press. This process is used in industrial water and wastewater treatment, in the paper industry (retention, water treatment), as well as in purification technology (sludge dewatering, solid/liquid separation).



DOSING CONTROL FOR PRECIPITANTS

PSA-005 is an online charge-measuring instrument to control the dosing of chemicals in sludge dewatering and wastewater treatment systems of purification plants and paper mills.

