

■ PROCESS OPTIMISATION



SYSTEM ANALYSIS

We evaluate the actual state of industrial paper and pulp plants; we assess relevant operating data and carry out own 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 the paper and pulp industry. The appropriate products are selected by laboratory evaluation and machine trials.



SOLUTIONS

On the basis of the systems analysis, the calculation of profitability, the application 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



■ 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



■ ENVIRONMENTAL ENGINEERING

- Organic Polymers
- Inorganic Iron and Aluminium Salts
- Biochemical Products
- Dissolving, Dosing and Control Units
- Deodorisers
- Defoamers and Deaerators
- Decolourisation
- Special Products
- Consulting and System Analyses

**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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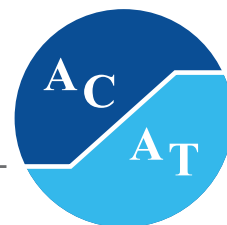
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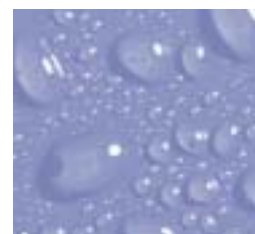
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PAPER TECHNOLOGY



Our strong points:

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

■ FINE CHEMICALS AND SPECIAL PRODUCTS

RETENTION AND DEWATERING SYSTEMS

Our products are used on the largest and fastest paper machines throughout the world. State-of-the-art headboxes demand a great deal of the chemicals used and require specially adapted retention and dewatering systems. The micro-particle systems Hydrocol, Polyflex, and Particol are optimal products with regard to sheet formation, retention and dewatering. In addition, the selection comprises optimised procedures for every paper quality to be able to meet all runability and performance requirements.



FIXATIVES AND BENTONITES

We offer a wide range of synthetic fixatives and modified bentonites. The optimal strategy against any kind of stickies, like difficulties with resins, is selected on the basis of a deposit simulation in the laboratory – a unique method of analysis. The products are used individually or in combined systems.

Main application fields include:

- Resin control in pulp and paper circuits
- Sticky control
- Treatment of broke
- Deposit control
- Runability problems



ORGANIC POLYMERS

These are highly effective, synthetic flocculants particularly developed for the solid/liquid separation in communal and industrial sludge treatment. They are high-molecular, soluble polymers on the basis of acrylamid and its co-polymers. The poly-electrolytes 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 form (bead, powder, gel) and in liquid form as dispersion and emulsion.

- 1 Hydrocol:** Two-component micro-particle system
- 2 Polyflex:** Two-component micro-particle system
- 3 Organopol:** Two-component system for newspaper printing paper
- 4 Percol:** Cationic and anionic polymers for single and dual systems
- 5 Particol:** Silica Microgel micro-particle system





DEFOAMERS

Our defoamers and deaerators are highly effective products available in many different practical adaptations. They positively influence paper, cardboard and pulp production processes.



STARCH

Starch and starch derivatives are important auxiliary means in the production of paper and cardboard. Our products cover all applications like stock addition, sizepress and coating colour addition.



ODOUR CONTROL

We have tailored solutions for you depending on the usage site, the kind of odour and the intensity of the nuisance:

- Sewer systems
- Pumping stations
- Communal wastewater treatment plants
- Chemical industry
- Refineries
- Paper factories
- Sanitary landfills
- Composting plants

SPECIAL PRODUCTS

A wide selection of special products is available for different usages, e.g.:

- PVA
- CMC
- Thickeners for coating
- Calciumstearat
- Coating additives
- Adsorbents
- Flotation additives
- Deposit control agents



■ 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.



DOSAGE TECHNOLOGY

A complete design, assembly and start-up of the required dosage unit is done for each type of usage and comprises all necessary units like pumps, wires, flow meters and other necessary parts. Integration into existing process control systems is possible at any time.

BENTONITE DISPERSION UNITS

The units are suited for bentonite processing and other mineral sludges.

The respective usage-specific initial concentration can be processed and controlled online. Product storage is effected in bigbags or silos. The projects are wound up in full accordance with the internal standards of the ordering customers.

