

# PULP- & PAPER INDUSTRY

WE OPTIMIZE  
YOUR PRODUCTION PROCESSES





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# We OPTIMIZE FOR YOU

Our Focus is on process-related consultation and process-optimization for the production of

- PULP
- GRAPHIC PAPER
- TISSUE
- CARDBOARD & PAPERBOARD
- CORRUGATED BOARD

## INCREASE OF RETENTION & DRAINAGE, IMPROVEMENT OF FORMATION, OPTIMIZATION OF RUNABILITY

> We offer **application-specific treatment** from single product up to multi-component-systems for the optimization of retention, formation and drainage with our **OPTIRET® System**.

Products: FILLFLOC®, PETROFIX®, PETROFLOC®, PETRONIT®

## GENERAL PRODUCT RANGE

FLOCCULANTS,  
DRAINAGE BOOSTERS,  
FIXATIVES

BIOCIDES

MODIFIED  
LIGNOSULPHONATES

PRODUCTS FOR  
SURFACE TREATMENT  
& HYDROPHOBATION AGENTS

DEFOAMERS

SCALE INHIBITORS

DISPERSING AGENTS

CORROSION INHIBITORS

COMMODITIES



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Use biocides in a safe way.  
Always read labelling and  
product information before use.

## PRODUCTS FOR TREATMENT OF DEPOSITS IN MACHINE CIRCUITS AND IMPROVEMENT OF MACHINE-HYGIENE

### > PETROGUARD® - A COMPREHENSIVE HYGIENE-SYSTEM FOR YOUR PROCESS

For the treatment of microbiological, organic and anorganic **deposits in machine circuits** we use various single products or product-combinations to achieve optimal effects.

In addition we use **complexing agents and dispersants** as **optimum support** for the conservation and cleaning agents.

Products: PETROSID®, PETROOXID®, PETROCLEAN®, BRU-Clean®, PETRODIS®, PETROSPERSE®, FIBREDIS®

### > FOCUS ON SLIME PREVENTION & CONSERVATION

> We treat fresh and cooling water, pulp, raw materials, additives, slurries etc.

Products: PETROSID®, PETROOXID®, PETROCLEAN®, PETRODIS®

### > FOCUS ON CLEANING & PASSIVATION

> **Cleaning agents** to support deposit control: PETROCLEAN®, BRU-Clean®

> **Chemical surface-sealing** and **Passivation** by our partner BRU-Serv Industrie Service KEG: PETROCLEAN®, BRU-Clean®

## PROCESSING ADDITIVES

> **Fixatives:** PETROFIX®, PETROFLOC®, PETRONAL® (Polyamine, Polyadmacs, PEI, PVAm)

> **Wet- and dry-strength-agents:** PETROBOND® (CMC, Biopolymer based on starch, G.PAM, PAAE etc.)

> **Sizing agents:** PETROSIZE® (AKD, ASA, resin sizers, special products on customer requirements, BfR XXXVI recommendation and BfR XXXVI/2 on demand)

> Products against **pitch and stickies:** PETROFIX®, PETRONIT®, FIBREDIS®

> Products for **fibre recovery:** FILLFLOC®, PETROFLOC®, PETROFIX®

> **Defoamers and De-Aerators:** PETROFOAM® (concentrates and dispersions)

> Inhibitors to **prevent corrosion, soiling and hardness deposits**

for example in cooling circuits: PETROCORR®, PETROSPERSE®, MONTASPERSE®

> Products to **condition formation wires and press felts:** STICKEX®, PETROCLEAN®

> **Catalase Inhibitors:** PETROSID®, PETROSPERSE®



## ANALYTIC IS OUR STRENGTH

- > To control
  - > Deposits in machine circles (substance-related, organic, anorganic)
  - > Paper defects (dirt specs, breaks, holes, stains ...)
  - > Process-Efficiency (washing-efficiency, pitch-control-efficiency etc.)
- > We can provide, amongst others, the following analyses:
  - Various quick-tests (Ninhydrin, Lactofuchsin, Lactophenol, Iodine/potassium iodide, Ammonium thiocyanate etc.)
  - Microscopical examinations to confirm or disprove microbiological contaminations, to determine compositions of contaminations (biofilm, filamentous bacteria, fungus infestations) and to choose an optimal treatment strategy
  - Raster-Electron-Microscopy with Energy-Dispersive X-ray-Spectroscopy (REM/EDX)
  - Fourier-Transform-Infrared-Spectrometry (FTIR)
  - Gas-Chromatography with Mass-Spectrometry (GC-MS)
  - High-Performance Liquid-Chromatography (HPLC)

## EQUIPMENT AND TECHNICAL SUPPORT

- > Polymer-dissolving stations
- > Bentonite-preparation stations
- > Biocide-dosing technology