Chemical treatments for paper production
TREATMENTS FOR PAPER INDUSTRY

- Antistickies
- Forming fabrics and wire cleaning
- Forming fabrics and wire passivation
- Dryer fabric cleaning
- Wiretec technology (DSP)
- Specific antiscalant application
- Repulpering aid
- Softeners and conditioners for tissue paper
ANTISTICKIES: BLUEMATE 880

- **Bluemat 880** is a multifunctional deposit control agent for process waters.
- It stabilizes pitch and stickies emulsion preventing their deposition on clothing and machine surfaces.
- Bluemat 880 is composed by natural components and it is environmentally friendly.
**FELT AND WIRE CLEANING**

**BATCH DOWN**
- One product is applied at high concentration during paper machine shut down.

**BATCH — ON-THE-FLY**
- One or two products are applied in a shock way with a special equipment.
CONTINUOUS CLEANING

- New concept
- The chemicals are dosed into high pressure lines
- No special equipment is needed
- Cleaning and dispersant action is obtained
- The clothing performances are stable
- No influence on the process water
With passivation a thin chemical layer is created on the formic fabric or on the press felt.
This chemical layer avoids the deposits if substances on the clothing surface.
The passivation is the best treatment when deposits are on the surface and not into the surface.
Passivation program could be:
- Cationic (ACQ 702, ACQ 702 C, ...)
- Non ionic (WTC 709)

The product is dosed into conditioning shower water of the forming fabric or of the felt press.
WIRE PASSIVATION: WTC 709

WTC 709 applied only on half forming fabric.

In the picture is possible to see the reduction of stick deposits.
DRYER FABRIC CLEANING: ACQ 707

- It is a highly effective detergent, solvent based built with complex wetting agents.
- It cleans the fabric surfaces of any kind of organic deposits.
- It reduces the standard cleaning time.
- It doesn’t have typical solvent smell.
DRYER FABRIC CLEANING: ACQ 707

Dryer fabric before to clean

Dryer fabric After standard cleaning

Dryer fabric after ACQ 707 cleaning
**WIRETEC TECHNOLOGY**

*Alpha chemicals* has focused its research to formulate a very effective specific chemicals to reach the dryer cylinder or the dryer fabric cleaning aims

- **WTC 716-718 for dryer cylinder**
- **WTC 714 for dryer felt**

WTC product is applied with a special dosing systems to reduce at the minimum level the water needs and the possible aerosol formation. Its application doesn’t change the paper humidity content and increase the dryer section efficiency, reducing steam consumption
WIRETEC TECHNOLOGY

no application

WTC application

no application

WTC application
ANTISCALANT

SPECIFIC APPLICATION: ACQ 145

- Effective at high calcium concentration, high pH, high temperature
- Very active also if used at low concentration
- Usable in water with high quantity of material in suspension
- Chlororesistant
- Safe for using and without environmental impact
ACQ 145: ON PICK-UP CYLINDER

BEFORE TREATMENT

AFTER TREATMENT
ACQ 145: ON PICK-UP CYLINDER

**BEFORE TREATMENT**

**AFTER TREATMENT**
REPULPERING AID: ACQ 550

- High efficiency
- Without halogen; it doesn’t increase the paper AOX
- It doesn’t interfere with other chemicals used in wet end
- It doesn’t degrade the fibres or change their colour
- It is safe and easy to use
- It can be used for Tetrapack repulpering
The Bluesilk line was developed to provide to the market chemicals able to improve the quality level of tissue paper felt by the final user increasing the value of the final product realised with this paper.
About us

Our passion for chemicals and speciality application has borne 20 years ago.

With our chemical engineers with over 30 years of experience and know-how in various applications, we distinguish market interests and focus on giving something better.

Unique money for value quality chemical products made in EU.

Our business is developed from R&D department on Production and Quality department.
About us

We are specialized on supply a full service for water, pulp and paper treatment, utilizing specialized services including use of advanced technologies and customerized chemicals, in order to satisfy needs and expectations of the clients in terms of quality, production, efficiency, safety, ecology.

Our business in numbers:

– Customer number: > 1000
– Business footprint: > 28.000.000,00 €
– 30 technical engineers
– 6 laboratory specialist
– Customers activity area:
  Paper, food, chemical, pharmaceutical, textile, lather, plastic, hospital, power and cogeneration plant, etc
Our products are present in the market across Europe and Asia through our representatives:

- Austria
- Denmark
- Germany
- UK
- France
- Holland
- Hungary
- Iran
- India
- Slovenia
- Suisse
- Spain
- Portugal
- Turkey
- Serbia
- Etc...
To maintain our high standard of customer satisfaction and providing them best available products on market we are continuously developing and bringing new solutions for Your applications.

Our main markets:

- CHEMICAL PROCESSING
- FOOD & BEVERAGE
- PULP & PAPER
- OIL & GAS
- GENERAL MANUFACTURING
- ENERGY PRODUCERS
- MINING
- COMMERCIAL FACILITIES
R & D Laboratory

Our modern R&D laboratory based in Milan, represents for ALPHA chemicals an important effort for pursuing its quality objectives and new advanced Technologies.

- 2 milion € of investment
- 6
- 400 m2 of surface area
- Pilot plants
R & D Laboratory

Research and development projects

- NEW liquid organic cationic coagulant
- NEW biotechnologies chemicals
- Advanced all organic technology for high hardness cooling tower
- NEW stabilized sodium bromide technology
- Corrosion inhibitors for galvanized steel in water with at high pH and low hardness
- Fuel preservative

On going projects

- Developed of existing product range
- Cooling systems
- Biocides
- Boiler treatments
- Pasteurizers and sterilizers
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