Solenis is dedicated to helping pulp and paper mills operate more efficiently and profitably. We offer a state-of-the-art product portfolio that addresses nearly every aspect of papermaking. Our highly skilled team of field sales representatives, applications engineers, and research scientists ensure our products work in your specific mill environment. By bringing together the best of both worlds — innovative chemistries and innovative people — Solenis is setting the standard in papermaking excellence.
Contaminant Control Technology

From the pulp mill to the machine reel, a multitude of organic and inorganic contaminants can be found or created in the process. Left unchecked, they can lead to any number of problems, including lost production, poor sheet quality, and unscheduled shutdowns.

Solenis offers a broad range of products designed to meet the contaminant control needs of your entire papermaking operation. Product formulations are based on years of research and development, application experience, problem diagnoses, and product evaluations.

Our applications expertise and experience with all types of machines and grades of paper, combined with the most complete and cost-effective chemical solutions on the market, ensure that you will benefit from a totally customized solution to your contaminant control needs.
Press Fabric Conditioning
By maintaining the permeability and absorbency of press fabrics, you can significantly reduce fabric filling, compaction, and wear. You can also increase water removal in your press section. Solenis offers a number of fabric cleaners and conditioners that improve machine productivity by enhancing the performance of press fabrics. The application of these products:
- Cleans fabrics uniformly and evenly
- Eliminates unscheduled maintenance stops
- Reduces fabric and sheet moisture profile variations
- Eliminates intermittent shutdowns to clean wet fabrics

Additionally, we offer products that continuously prevent the deposition of contaminants on press fabrics. This unique technology, which we refer to as “press fabric passivation,” is used extensively world-wide and has been pioneered by Solenis.

Dryer Section Passivation*
With the addition of our dryer section passivation technology, we can tackle all contaminant control challenges across the entire pulp and papermaking process. This technology improves the total efficiency of your dryer operation, protecting every surface in your dryer section that comes in contact with the sheet, reducing the deposition of contaminants, and minimizing sheet picking and dusting. Designed for flexibility, this technology can integrate:
- A continuous application of chemical additives on dryer cylinders and dryer fabrics
- Specially designed application equipment, including traversing atomizing spray nozzles and their associated pump unit and control station

Dryer Cylinder Contaminant Control
Smotherer paper, reduced fiber rising and fewer breaks are just some of the benefits you will realize when you treat your dryer cylinders with our dryer section passivation technology. The chemistry behind this technology not only prevents contaminant adhesion but also helps lubricate the doctor blades, reducing friction between the blade and the dryer cylinder, thereby decreasing doctor blade and cylinder wear. Other benefits include:
- Increased paper production
- Improved sheet quality
- Reduced steam consumption
- Increased safety through reduced use of solvents

Dryer Fabric Contaminant Control
When deposits form on dryer fabrics, they frequently transfer to the dryer fabric rolls. Over time, the buildup forms thick deposits. Deposits of this nature not only impair moisture removal, but also can transfer back to the sheet and cause visible spots.

Our dryer section passivation technology establishes a protective layer that prevents contaminants from adhering to the fabric surface. By preventing the deposition of contaminants on the dryer fabrics, it minimises the need for you to stop and clean your fabrics when production has slowed due to impaired moisture removal or when your sheet moisture profile can no longer be controlled.

Boilouts
To help make your scheduled machine boilouts and cleaning even more effective, Solenis has developed an extensive portfolio of products which are unmatched in their effectiveness at removing microbiological, organic and inorganic deposits through-out the paper making process.

Fabric Cleaners
Removing contaminant buildup on your forming fabrics, press fabrics, and dryer fabrics will greatly improve the overall operating efficiency of your machine. Whether you need to clean your fabrics intermittently or during a scheduled shutdown, Solenis has a solution. Our fabric cleaners are specially formulated to break down the contaminant structure, thereby making the deposit easier to rinse away. We also offer products that are based on a variety of chemistries and that will address even the most tenacious of deposits.

Foam Cleaners
Whether used during scheduled maintenance stops or other machine shutdowns, our foam cleaners are highly effective at removing stubborn organic deposits and inorganic scale from surfaces not readily cleaned during regular system cleaning. All of our foam cleaners are specially formulated to produce stable foam that clings to the surface to be cleaned.
Solenis

Strong Bonds. Trusted Solutions.

Solenis supplies specialty chemicals for water-intensive industries, including the pulp and paper, oil and gas, chemical processing, mining, biorefining and power markets. Whether you want to increase production, develop new products, reduce costs or simply do more with less, we can help. With our innovative technologies, passionate people and unrivaled experience, Solenis is ready to deliver the solutions you need.

To learn more, contact your technical sales representative or visit us online.