

Treated fiber-based materials

Easier scale up, Faster process, Higher quality, Better reliability

At Ahlstrom-Munksjö, we believe that an application-based approach is necessary to address the challenges of diagnostic technologies. Our mission is to develop innovative paper through collaboration with partners and support their ideas with our treatment capabilities.

Our automated medium-size industrial process provides cost-effective and uniform treatment of different chemical recipes for consistent performance and new fiber web material features. Moreover, the converting facilities in United States and Europe enable our company to offer customized formats and sizes.

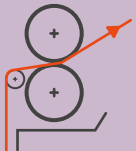




We deliver high product quality from laboratory samples to production material on reel-to-reel equipment through a variety of processes, including development of specifications, traceability of raw materials, and storage of treated material.

- Automated process for reliable performance
- Medium to large size of finished product
- Uniform pretreatment and treatment with lot-to-lot consistency
- Time saving with reduced processing steps
- No chemical and waste management

Benefits of available web treatment technologies

Ahlstrom-Munksjö's expertise in chemical treatment technologies to enhance physicochemical characteristics of Life Science and Diagnostic fiber products has been developed during our growth as a global leader in manufacturing high-performance fiber-based materials.

Our versatile process treats media with diverse thicknesses and porosities with a variety of different chemistries.

	Foulard: Immersive impregnation of water or solvent based treatment <ul style="list-style-type: none">- Higher chemistry reactivity from the homogeneous and full depth penetration of fiber-based material- Easier treatment of weak material as technique accepts wider range of coating liquids
	Transfer/coating: One or two sides impregnated with water or solvent based treatment <ul style="list-style-type: none">- Change surface porosity for modification of kinetic absorption- Uniform coloration from the even surface treatment
	Spray: One or two side water based treatment <ul style="list-style-type: none">- Partial surface treatment allows limited addition of active chemicals and preservation of material porosity- Less pressure so weaker materials and specific chemistries can be applied as treatment
	Foam: One side water based surface treatment <ul style="list-style-type: none">- Thinner and more porous materials can be treated by this low contact method
	Curtain: One side water based surface treatment <ul style="list-style-type: none">- Chemistry remains on surface with limited penetration to fiber interior- Minimal contact with material permits treatment of weaker materials

Quality controls and specifications:

- Dedicated tank for preparation of recipe for diagnostic and life science applications
- Control of key parameters (pH, surface tension, active chemistry, etc.)
- Devices and methods for on or offline feature controls (quantity of dry chemistry added, moisture, thickness, capillary rising, release of gold conjugate, etc.)
- Possible development of new control testing for sensitive applications
- Manufacturing facility in Pont-Eveque, France, ISO 9001:2015 certified

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