

Ahlstrom offers a complete range of advanced filter media to meet the specific needs of various operational environments. Contaminants present in different environments vary greatly, therefore bringing different performance requirements depending on the location.

We offer solutions to all stages of filtration from pre-filtration to final stage HEPA filtration and pulse jet filters. Effective air intake filtration is critical in order to protect and optimize the lifespan of gas turbines. In addition, changes in weather conditions challenge the turbine performance therefore making the selection of correct air intake filter media even more important.

Benefits

- Complete range of media available from 100% cellulose to 100% synthetic or microglass in various combinations for all stages of power generation air intake filtration
- Filter media designed to offer solutions under a variety of operational environments and temperatures: high humidity, sand, salt, soot, dust, fog, snow and others
- Ability to tailor products according to your specific performance requirements: A single source for all filter media solutions

Stay ahead

Ahlstrom is a high performance fiber-based materials company, partnering with leading businesses around the world to help them stay ahead. Our products are used in a large variety of everyday applications, such as filters, medical gowns and drapes, diagnostics, wallcoverings, flooring and food packaging. We have a leading market position in the businesses in which we operate. In 2012, Ahlstrom's net sales from the continuing operations (excluding Label and Processing business) amounted to EUR 1 billion. Our 3,800 employees serve customers in 28 countries on six continents. Ahlstrom's share is quoted on the NASDAQ OMX Helsinki. More information available at www.ahlstrom.com.

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AHLSTROM

Gas turbine air intake media

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Gas Turbine Air Intake filter media solutions

Ahlstrom's solutions for gas turbine air intake filtration are based on several technical platforms. Our expertise and latest knowhow in various nonwoven technologies and chemistries is applied to provide several advanced solutions to the filter manufacturers.

The media technology utilized and selection of the fiber composition and resin chemistries are carefully chosen according to the specific filter performance requirements.

With the full range of technologies, Ahlstrom is a single source provider of filter media solutions for both static and pulse-jet gas turbine air intake applications.

Our filter media can be used as:

- Pleated and pocket filters for pre-filters
- Pleated and cartridge filters for primary filters
- Mini-pleated for HEPA filters

Full range of technologies and benefits

Ahlstrom Trinitex® GT Synthetic filter media

Ahlstrom Trinitex® is easy to convert on rotary and knife pleating lines.

Ahlstrom Trinitex® technology offers excellent mechanical filtration efficiency and low pressure drop due to its unique 3-layer technology. Each layer can be controlled and each layer can have a different function giving the media an excellent combination of strength and mechanical efficiency for smaller particles. All Ahlstrom Trinitex® grades are treated with special chemistries giving the media outstanding water repellency properties.

Flexibility of the technology allows media designs with high tensile strength in wet conditions and increased dust holding capacity making it a well suited filter media option for pulse jet and static applications.

Microglass GT filter media

Microglass filter media is an ideal media for pleated filters in F7–F9 and HEPA filter applications. Microglass technology guarantees consistent efficiency in the final stage of air intake filtration – which ultimately protects the turbine.

Microglass is also available in dual layer design, which provides the media with increased dust holding capacity while maintaining the highest possible efficiency.

Cellulose GT filter media

Wetlaid cellulose and synthetic fibers based (so called "80/20") filter media is available in various compositions and resin chemistries. Our saturation technology creates consistent and durable solutions for humid conditions. Phenolic advanced cured media has an excellent strength and performance even at lower basis weights.

Cellulose Fine-fiber GT and Cellulose Nano GT composite filter media

Composite filter media has a base web and a functional layer. Some examples are Ahlstrom's Fine Fiber technology where the products are designed to offer superior filtration efficiency and dust holding capacity due to a very fine layer of small fibers. The Fine Fiber layer has a fiber distribution with a high percentage of fibers in the submicron range.

We can also include a layer of nanotechnology to offer even higher initial efficiencies and narrower pore size distributions.

Our global team is dedicated to help you stay ahead by offering reliable GT filter media solutions providing the power generation plants with smooth and efficient output even under the most extreme field conditions. Please contact us to learn more about our various filter media solutions, and to help you find the perfect match for your specific GT air intake application!

Ahlstrom media portfolio for gas turbine air intake

| | | | | | | |
|--------------------------------|-----------|-------------|-----------|-------------|-----------|--|
| Trinitex® GT | | | | | | <p>Trinitex® is an Ahlstrom proprietary technology that produces filter media with 3 layers. Layers can be modified to suit the specific needs of Gas Turbine Air Intake. High strength due to synthetic fibers and Superior performance in diesel soot applications. Trinitex® can be used in both, static and pulse jet applications and well suited for environments with high humidity, soot and salt.</p> |
| Pre Filter | | Fine Filter | | HEPA Filter | | |
| Static | Pulse Jet | Static | Pulse Jet | Static | Pulse Jet | |
| ● | ● | ● | ● | n/a | n/a | |
| Microglass GT | | | | | | <p>Microglass GT filter media is available in dual or single layer designs, the wide portfolio includes the possibility to add of additives and blends with synthetic fibers to enhance strength and pleatability of the media. Microglass media is used in Static filters and can be used in various environmental conditions.</p> |
| Pre Filter | | Fine Filter | | HEPA Filter | | |
| Static | Pulse Jet | Static | Pulse Jet | Static | Pulse Jet | |
| n/a | n/a | ● | n/a | ● | n/a | |
| Cellulose GT | | | | | | <p>Cellulose GT filter media is a product with blends of polyester and cellulose fibers. Blends are typically 80/20 but can include other ratios as well. Products have good pleatability and excellent performance in dusty environments. Products can be used for pulse jet and static applications.</p> |
| Pre Filter | | Fine Filter | | HEPA Filter | | |
| Static | Pulse Jet | Static | Pulse Jet | Static | Pulse Jet | |
| ● | ● | ● | ● | n/a | n/a | |
| Cellulose Fine-Fiber GT | | | | | | <p>Cellulose Fine-fiber GT filter media is a family of products with a fine layer of Fine Fiber on top of a cellulose carrier sheet. The product offers superior filtration efficiency and dust holding capacity due the very fine layer of small fibers. High corrugation also helps the Pulse Jet cleaning process.</p> |
| Pre Filter | | Fine Filter | | HEPA Filter | | |
| Static | Pulse Jet | Static | Pulse Jet | Static | Pulse Jet | |
| ● | ● | ● | ● | n/a | n/a | |
| Cellulose Nano GT | | | | | | <p>The Cellulose Nano GT filter media products are based on a cellulose carrier media coated with a nano fiber layer based on the electro-spinning technique. Depending on the media combinations a wide range of filtration performance characteristics can be reached.</p> |
| Pre Filter | | Fine Filter | | HEPA Filter | | |
| Static | Pulse Jet | Static | Pulse Jet | Static | Pulse Jet | |
| | ● | | ● | | | |

