Ahlstrom Glass HVAC

Purifying air, protecting personal health and comfort

Quality of air in residential and commercial buildings is a major public health and safety challenge. Ahlstrom filtration media for Heating, Ventilation and Air Conditioning (HVAC) applications protect people and processes from harmful pollutants in ambient air, reducing the risk of airborne contamination and increasing the comfort of life.

Ahlstrom offers a **fully PFAS-free mechanical glass microfiber portfolio**, combining high energy efficiency with extended service lifetime. Designed to maintain consistent filtration performance over time, the portfolio addresses the full range of HVAC filtration requirements, from coarse particle removal to fine filtration extending operational lifetime of downstream filters.

Benefits

- **Complete range of efficiency** – from Coarse to ePM1 rating (ISO16890)
- **Superior pleating performance** – excellent pleat shape and high consistency.
- **"-A" series** – specifically designed to reach the lowest energy consumption.
- **Proven ability to customize** – using extensive and demonstrated know-how.
- **Water-repellent PFAS-free solutions**

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Ahlstrom's Glass HVAC PFAS-free portfolio covers a full range of air filtration requirements, from **Coarse 85% to ePM1 efficiency ratings according to ISO 16890 standards**, ensuring reliable performance across all filtration stages and improved indoor air quality.

Based on advanced glass microfiber technology, the standard range provides an optimal balance of **low pressure drop and high dust holding capacity**, combined with **excellent pleating behavior**, making it an optimal choice for deep-pleat and mini-pleat applications.

The "-A" series has been specifically developed to achieve the **lowest pressure drop** levels while optimizing **dust holding capacity and energy efficiency**.

Ahlstrom's flexible manufacturing platforms and lamination capabilities enable a wide range of customization options, including **water repellency, flame retardancy, antimicrobial features, tailored efficiency levels, and multilayer constructions.**

The references in the table below represent only a selection of the most common glass grades of the portfolio.

Key Grade Characteristics

			Basis Weight	Average Efficiency Class	Thickness	Pressure Drop @ 5.3 cm/s	MD Tensile	MD Stiffness
	Grades	Category	g/m²	ISO16890:2016	µm	Pa	N/m	g
Pre-Filtration	**55ASCO90T58**	Standard	58	Coarse 85%	340	3	1960	1.1
	65ADF601TE	Standard PFAS Free	68	ePM10 65%	340	11	1440	1.2
	65ADF601A TE	-A PFAS free	68		340	9	1440	1.2
Fine Filtration	**80ASF701TE**	Standard PFAS Free	68	ePM1 65%	310	29	1310	12
	80ASF701A TE	-A PFAS Free	68		310	25	1310	12
	90ASF801TE	Standard PFAS Free	68	ePM1 65%	300	40	1310	12
	90ASF801A TE	-A PFAS Free	68		300	35	1310	12
	90ASF901TE	Standard PFAS Free	68	ePM1 80%	290	59	1310	12
	90ASF901A TE	-A PFAS Free	68		290	56	1310	12

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