



# Ahlstrom High Efficiency Air

Purifying air, protecting patient's health and critical production processes

**Quality of air entering clean rooms is a major element of protection, safety and productivity in many critical applications such as hospitals, pharmaceuticals, microelectronics, and food processing. Ahlstrom EPA / HEPA / ULPA filter media protects people and products from most pollutants in ambient air, preventing airborne microbiological and particulate contamination.**

Ahlstrom High Efficiency Air (HEA) portfolio offers 100% glass microfiber-based and 100% synthetic fiber-based solutions. With such customizable alternatives, our HEA portfolio is designed to combine low pressure drop with high dust holding capacity while offering the highest flexibility to optimize pleating processes, filter elements' assembling and overall reliance in filtration performances.

## Benefits

- ✔ **Complete and reliable efficiency range** - from E10 to U16 (EN1822) and from 05 E to 65 U (ISO 29463).
- ✔ **Flexible web-forming technologies** - from 100% glass microfibers to 100% synthetic glass-free designs.
- ✔ **Low to lowest pressure drop** - reducing energy consumption.
- ✔ **High dust holding capacity** - extending service intervals.
- ✔ **Proven ability to customize** - for enhanced protection and air purification.
- ✔ **Water-repellent PFAS-free solutions** - available upon demand.

## Ahlstrom Glass High Efficiency Air (HEA)

Our Glass HEA offer covers a wide range of full mechanical efficiency media from E10 to U16 (EN1822) and from 05 E to 65 U (ISO 29463). The portfolio is characterized by low-pressure drop and high dust holding capacity, plus superior media uniformity which guarantees reliable filtration performances along the filter life. Stiffness and mechanical resistance are optimized to deliver improved productivity during the filter manufacturing process; an excellent choice for deep-pleat and mini-pleat applications.

Our flexible production platforms allow a complete panel of customizations to meet the most diverse and demanding market's requirements, including high permeability, high basis weight, high temperature resistance, extended dust holding capacity, water & oil repellent treatments and enhanced mechanical resistance.

Glass HEA portfolio can be also offered laminated 1-side or 2-side with a reinforcement fleece and/or with a functionalized spunbond for delivering anti-bacterial and anti-fungal properties, according to AATCC TM100, JIS 1902 and ISO846: 2019 Part A&C.

### Key Glass HEA Grade Characteristics

Water-repellent PFAS-free solutions available upon demand.

Grades	Basis Weight	Thickness	Efficiency Class		Pressure Drop @ 5.3 cm/s	MD Tensile	MD Stiffness
	g/m <sup>2</sup>	µm	EN1822 @ 1.7 cm/s	ISO 29463 @ 1.7 CM/S	Pa	KN/m	mg
DOPH1001	72	430	E10	05 E	88	1.2	1000
DOPH1101	72	430	E11	15 E	118	1.2	1000
HEPH1201	72	420	E12	25 H	220	1.2	1000
HEPH1301	72	420	H13	35 H	265	1.2	1000
HEPH1401	75	450	H14	45 H	329	1.2	1000
ULPU1501	75	450	U15	55 U	397	1.2	1000
ULPU1601	78	470	U16	65 U	466	1.2	1000

## Ahlstrom Membrane High Efficiency Air

Our Membrane HEA portfolio had been specifically engineered for offering a glass-free, solutions to the market, focusing on H13 and H14 classes according to EN1822. Combining a 100% synthetic and easy-to-pleat carrier with a high efficiency ePTFE membrane, Extia® HEA solutions deliver an exceptionally low pressure drop and reliable filtration performances during the complete life of the filter.

### Key Membrane HEA Grade Characteristics

Grades	Basis Weight	Thickness	Efficiency Class	Pressure Drop @ 5.3 cm/s	MD Stiffness
	g/m <sup>2</sup>	µm	EN1822 @ 1.7 cm/s	Pa	mg
Extia® 1301N	100	300	H14	342	0.35
Extia® 1302N	100	300	H13	157	0.35

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