



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 hospital, pharmaceuticals, microelectronics, 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 both a 100% glass microfibers-based and a glass/binder-free, 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 range of efficiency** - from E10 to U17 (EN1822).
- ✔ **Flexible web-forming technologies** - from 100% glass microfibers to 100% synthetic binder/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.

Ahlstrom Glass High Efficiency Air (HEA)

Our Glass HEA offer covers a wide range of full mechanical efficiency media from E10 to U17 according to EN1822 standard and a complement range for Americas based on MIL-STD-282 testing method. 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 in order 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 extended dust holding capacity by our double layer web-design, water & oil repellent treatments and high synthetic-fibers content for enhancing medias' mechanical resistance.

Glass HEA portfolio can be also offered laminated 1-side or 2-side with a reinforcement fleece and/or with a functionalized spundbond 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

	Basis Weight	Efficiency Class		Thickness	Pressure Drop @ 5.3 cm/s	MD Tensile	MD Stiffness
Grades	g/m ²	EN1822 @ 1.7 cm/s	% Efficiency 0.3 µm @ 5.3 cm/s	µm	Pa	N/m	g
DOPH1001	72	E10	-	430	80	1200	0.9
DOPH1003	72	-	87	430	85	1200	0.9
DOPH1101	72	E11	-	430	100	1200	0.9
DPOH1103	72	-	95	430	115	1200	0.9
HEPH1201	72	E12	-	420	215	1200	0.9
HEPH1203	72	-	99.92	420	235	1200	0.9
HEPH1301	72	H13	-	420	255	1200	0.9
HEPH1303	72	-	99.97	420	280	1200	0.9
HEPH1401	75	H14	-	450	320	1200	1.0
HEPH1403	75	-	99.99	450	325	1200	1.0
ULPU1501	75	U15	-	450	390	1200	1.0
ULPU1601	78	U16	-	470	440	1200	1.0
ULPU1701	78	U17	-	470	530	1200	1.1

Ahlstrom Membrane High Efficiency Air

Our Membrane HEA portfolio had been specifically engineered for offering a glass-free, binder-free, solutions to the market, focusing on H13 and H14 classes according to EN1822. Combining a 100% synthetic, flame retardant (F1 class according to DIN53438) and easy-to-pleat carrier with an 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

	Basis Weight	Efficiency Class	Thickness	Pressure Drop @ 5.3 cm/s	MD Stiffness
Grades	g/m ²	EN1822 @ 1.7 cm/s	µm	Pa	g
Extia® 1331	100	H14	300	44	0.35
Extia® 1332	100	H14	300	56	0.35

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