



Ahlstrom-Munksjö FilteV® Cabin

High performance filtration materials for Electric Vehicles

Cabin air quality is an increasingly important factor in the design of the new generations of vehicles. By filtering particles, microorganisms and harmful gases, air filters create a healthier cabin environment and improve the driving comfort.

Ahlstrom-Munksjö provides a reliable range of high performance media for cabin air filters in electric vehicles, which meet up to the most demanding requirements:

- Particulate portfolio protecting against coarse, fine and ultrafine particles, including bacteria and viruses.
- Carbon portfolio combining removal of particles and gases for an increased level of protection.

Benefits

- ✔ **Reliable filtration efficiency, up to HEPA level** – an increased protection against finest particles and microorganisms
- ✔ **Optimal gas adsorption** – long lasting performances against VOCs and odors
- ✔ **Excellent pleatability** – highest converting efficiency and best filter quality
- ✔ **Blue media** – newly developed solution for antibacterial and antifungal functionality

Ahlstrom-Munksjö FilteV® Particulate Cabin

Particulate Cabin portfolio for electric vehicles covers 2 levels of efficiency, with an optimized pressure drop, an increased lifetime and a flame retardancy feature (F1 according to DIN53438).

AT1876 offers a reliable removal of coarse particles, a blue color and a unique antimicrobial treatment limiting the development of microorganisms on the media (tested according to ISO846 part A,B,C and JIS L 1902).

KH32120003, an ePTFE membrane-based media, represents a new generation of cabin air filtration media for electric vehicles which delivers a consistent H13-EN1822 particulate efficiency during the whole life of the filter for the highest level of protection of the driver and its passengers against finest particles.

Grades	Basis weight g/m ²	Thickness µm	Air Permeability L/m ² /s @200 Pa	MD Stiffness mg	DIN 71460-1 with ISO A2 fine dust, 0.2m/s	
					Initial Fractional Efficiency % at 0.5 µm	Dust Holding Capacity g at 200 Pa
					AT1876080030	80
KH32120003	100	290	80	360	100	8

Ahlstrom-Munksjö FilteV® Carbon Cabin

Carbon Cabin portfolio for electric vehicles represents the greatest of our proprietary multi-layer carbon technology. **LA1094** filter media family, easily recognized by its blue color, delivers excellent pleating performance, an optimal gas adsorption and a unique antimicrobial feature limiting the development of microorganisms on the media (tested according to ISO846 part A,B,C and JIS L 1902). We also offer this media laminated with a high particulate efficiency layer reaching up to 90% removal of 0.5µm particles (DIN 71460-1).

Grades	Basis Weight g/m ²	Thickness µm	Air Permeability L/m ² /s @200 Pa	MD Stiffness mg	DIN 71460-1 w/ ISO A2 fine dust, 0.2m/s		DIN 71460-2 w/ 80ppm 0.1m/s, 50% RH
					Initial Fractional Efficiency % at 0.5 µm	Carbon Content g/m ²	Initial Break-Through Toluene %
					LA1094 340 30 NW04	340	1,900
LA1094 440 30 NW04	440	2,200	900	4,800	>90	300	20
LA1094 540 30 NW04	540	2,700	850	5,200	>90	400	10

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