Ahlstrom Synthetic APC

Synthetic wetlaid media with nanofibers option for Air Pollution Control cartridges in moist environment

Air pollution control (APC) filter media play a critical role in reducing emissions and ensuring safe operation across various industrial environments.

Ahlstrom **Synthetic APC** consists of a corrugated full-synthetic wetlaid media with a low initial pressure drop and isotropic surface. It can be enhanced with an upstream nanofiber layer for improved fine particle efficiency.

The combination of **excellent pleatability, moisture resistance,** and **consistent performance** makes Ahlstrom Synthetic APC a reliable option for APC cartridges operating in humid or variable environmental conditions.

Benefits

- **Full synthetic design** – ensuring improved durability in humid conditions with better abrasion and temperature resistance
- **Low basis weight and isotropic structure** – increasing the effective filtration surface and improving air to cloth ratio
- **High Corrugation** – ensuring easy and stable pleating
- **Nanofiber optional** – delivering higher fine particle efficiency, low pressure drop, and improved dust cake release

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Ahlstrom **Synthetic APC** is a corrugated, low basis weight wetlaid media designed for optimal processability on rotary pleaters and excellent air to cloth ratio. Its **100% synthetic structure** brings enhanced resistance to humidity, abrasion, and temperature, making it a strong choice compared with cellulose based media in moist environments.

The AK4560NCS grade reaches ePM2.5 50% (ISO16890) / M Class (EN60335) performance and is ideal for coarse to medium particulate loads in humid industrial conditions such as pneumatic conveying or pulp & paper processes where dust collectors are exposed to moisture.

The Synthetic APC Nano version combines the durability of the synthetic base media with a nano layer to reach ePM1 80% (ISO16890) / M class at very low pressure drop. The nano layer enables **superior surface filtration**, promoting better dust cake release and extended lifetime in applications with fine pollution, such as chemical or mineral industries.

Ahlstrom Synthetic APC – Key Grade Characteristics

	Basis Weight	Efficiency		Thickness	Corrugation Depth	Air Permeability	Stiffness MD	Flame retardant
Grades	**g/m²**	**EN60335**	**ISO16890**	**µm**	**µm**	**L/m²/s @200 Pa**	**g**	**Yes/no**
AK4560NCS2WR	114	M	ePM2.5 50%	640	320	145	4.0	No
AK4560NANCS2WR	117	M	ePM1 80%	620	320	239	1.9	No

Contact Ahlstrom Sales: ✉ filtration@ahlstrom.com

www.ahlstrom.com

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