



Ahlstrom Synthetic APC

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

Air pollution control (APC) and dust collection filter media are used in a wide range of industrial applications to reduce or eliminate the emission of particles into the atmosphere, protecting people and environment.

The Ahlstrom **Synthetic APC** media consists of a corrugated full synthetic media. It can be upgraded with electrospun nano fibers on the upstream side.

With an isotropic surface and low initial pressure drop, Ahlstrom **Synthetic APC** combines leading performance in pleatability, with excellent durability and effective filtration of coarse and fine particles.

Ahlstrom **Synthetic APC** is an excellent compromise between cellulose corrugated media and synthetic spunbond, delivering high filtration performance in moist conditions.

Benefits

- ✔ **Full synthetic design** – Better behavior in humid conditions; improved temperature and abrasion resistance.
- ✔ **Low basis weight and isotropic structure** – increasing effective filtration surface for a lower air-to-cloth ratio.
- ✔ **High Corrugation** – offering ideal performance for pleatability.
- ✔ **Nanofiber optional** – delivering higher efficiency on fine particles, low pressure drop and better dust cake release for best and longer filtration performance.

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Synthetic APC is a corrugated, low basis weight, wetlaid media having optimal processability on rotary pleater and delivering excellent air-to-cloth ratio when designing cartridges. The 100% synthetic structure adds enhanced abrasion and temperature resistance, longer lifetime in humid conditions and improved hygroscopic dust cake release compared to cellulose media. Reaching ePM2.5 50% (ISO16890) / M Class (EN60335), AK4560NCS is an excellent alternative to heavy spunbonds when filtering low/medium concentration of coarse particles in moist environments, such as pneumatic transportation, pulp and paper industries, or when the dust collector is outside.

Synthetic APC Nano grade combines unique Synthetic APC base media properties with a nano layer delivering ePM1 80% (ISO16890) / M class (EN60335) at very low pressure drop. The nano layer additionally confers very good pulse-jet cleaning behavior, due to predominant surface filtration phenomena and better dust cake release. These features make it our recommended option for moist environments with low/medium concentration and fine dusts, typically in chemical and mineral industries.

Grades	Basis Weight	Efficiency		Thickness	Corrugation Depth	Air Permeability	Stiffness MD	Flame retardant
	g/m ²	EN60335	ISO16890	µm	µm	L/m ² /s @200 Pa	g	Yes/no
AK4560NCS2WR	114	M	ePM2.5 50%	640	320	145	4	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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