



# Ahlstrom-Munksjö 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-Munksjö **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-Munksjö **Synthetic APC** combines leading performance in pleatability, with excellent durability and effective filtration of coarse and fine particles.

Ahlstrom-Munksjö **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.

## Ahlstrom-Munksjö Synthetic APC

**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 <sup>2</sup>	EN60335	ISO16890	µm	µm	L/m <sup>2</sup> /s @200 Pa	g	Yes/no
<b>AK4560NCS2WR</b>	114	M	ePM2.5 50%	640	320	145	4	No
<b>AK4560NANCS2WR</b>	117	M	ePM1 80%	620	320	239	1.9	No

Contact Ahlstrom-Munksjö Sales: ✉ [filtration@ahlstrom-munksjo.com](mailto:filtration@ahlstrom-munksjo.com)

[www.ahlstrom-munksjo.com](http://www.ahlstrom-munksjo.com)



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