Ahlstrom Nano APC

Cellulose base media with nano layer for Air Pollution Control applications in dry environment with fine particles

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

The Ahlstrom **Nano APC** is built on our Celltech APC corrugated base media and upgraded with an upstream electrospun nanofiber layer.

This self-supported structure delivers high fine-particle capture, low pressure drop, and excellent pulse-jet cleaning, even under heavy fine-dust loads.

Ahlstrom **Nano APC** offers a benchmark solution for dry environments requiring stable performance and extended service life.

Benefits

- **Highly efficient on fine particles** – the nano layer prevents fine dust migration into the base media and reduces emissions
- **Delivers longer lifetime** – thanks to excellent pulse cleaning behavior
- **High Corrugation** – ensuring strong and consistent pleating performance
- **Optional flame-retardant features** – improving safety where spark events may occur
- **Benchmark APC** – suitable for metalworking, blasting, and welding fumes

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Ahlstrom **Nano APC** reaches ePM1 80% (ISO16890) and M-class (EN60335) at very low pressure drop. It delivers up to four times more fine-particulate removal than traditional cellulose media, while keeping airflow stable. The nano layer supports **excellent pulse-jet cleaning,** driven by predominant surface-filtration behavior and fast dust-cake release. This guarantees **consistent performance** and **extended lifetime,** even in demanding industrial conditions. Ahlstrom has a flexible manufacturing capability available in US, Asia and EMEA.

NP70 is our main reference for dry APC environments, combining a CellTech APC cellulose/polyester base with an upstream nano layer to maintain stable behavior throughout the filter service life. Nano APC grades feature deep corrugation, ensuring smooth processing on rotary pleaters and strong pleat stability. A flame retardant version (ISO 53468 F1) is also available for applications where spark events may pose a risk

Ahlstrom Nano APC - Key Grade Characteristics

PFAS-free grades available upon demand.

	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**
NP70	120	M	ePM1 80%	320	440	140	5.0	No
NP70 FR	130	M	ePM1 80%	360	440	140	3.5	Yes

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