



Ahlstrom-Munksjö Nano APC

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

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 **Nano APC** is based on our market reference, CellTech APC corrugated filtration media, but coated with electrospun nanofibers on the upstream side.

With a self-supported structure, Ahlstrom-Munksjö **Nano APC** combines leading performance in pleatability, with optimal mechanical filtration at low pressure drop and excellent self-cleaning behavior, even with fine pollution.

Ahlstrom-Munksjö **Nano APC** delivers a benchmark solution for most APC applications in dry environments.

Benefits

- ☑ **Highly efficient on fine particles** – the nano layer protects the base media against fine particles migration and reduce the emissions to the atmosphere.
- ☑ **Delivers longer lifetime** – due to optimal pulse cleaning properties.
- ☑ **High Corrugation** – offering excellent pleating performance.
- ☑ **Optional flame retardant features** – delivering better protection when sparkles can occur.
- ☑ **Benchmark APC** – ideal solution for various industrials: metal work, blasting, welding fumes.

Архангельск (8182)63-90-72
Астана (7172)727-132
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Белгород (4722)40-23-64
Брянск (4832)59-03-52
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Вологда (8172)26-41-59
Воронеж (473)204-51-73
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Иваново (4932)77-34-06

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Россия (495)268-04-70

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Соленск (4812)29-41-54
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Ставрополь (8652)20-65-13

Казахстан (772)734-952-31

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Тверь (4822)63-31-35
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Ahlstrom-Munksjö Nano APC

Nano APC offering is reaching ePM1 80% (ISO16890) / M class (EN60335) at very low pressure drop. It delivers up to 4 times more particulate removal of submicron particles than traditional cellulose media without significant increase of pressure drop, making it our recommended option for environments with fine pollution. Additionally, the nano layer supports very good pulse-jet cleaning behavior, due to predominant surface filtration phenomena and better dust cake release.

NP70 is our main Nano APC reference designed for dry environment, combining a CellTech APC base media (cellulose/polyester fiber blend) with a nano layer, delivering consistent behavior along the filter lifetime. Nano APC references have a deep corrugation which guarantees excellent processing on rotary pleaters and enhanced pleat stability.

Nano APC is also available in a Flame Retardant version, reaching F1 according to ISO53468. This limits the risks in applications where sparkles can occur.

| 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 |
| NP70 | 120 | M | ePM1 80% | 320 | 440 | 145 | 4 | No |
| NP70 FR | 130 | M | ePM1 80% | 360 | 440 | 110 | 3.7 | Yes |

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<https://ahlstrom.nt-rt.ru/> || ame@nt-rt.ru