

# Ahlstrom-Munksjö Nano GT

Pulse-jet filtration media for gas turbines operating in dry environment with fine pollution.

**Quality of air entering the turbine is a significant factor in the performance and lifetime of the gas turbine. Ahlstrom-Munksjö offers a complete range of filtration media developed for gas turbine applications, to meet specific market needs in various operational environments.**

Ahlstrom-Munksjö **Nano GT** portfolio is based on our market reference CellTech filtration media, but coated with electrospun nanofibers on the upstream side.

With a self-supported structure, it combines leading performance in pleatability, with optimal mechanical filtration at low pressure drop and excellent self-cleaning behaviour, even with fine pollution.

Ahlstrom-Munksjö **Nano GT** delivers excellent protection of the gas turbine and long filtration life time in dry environments.

## Benefits

- ✔ **Offers ePM1 80% (ISO16890) efficiency** – delivering excellent protection of gas turbine against fine dust.
- ✔ **Delivers lowest level of pressure drop** – minimizing energy consumption.
- ✔ **Optimal back-pulsing behaviour** – delivering longer time between service intervals.
- ✔ **High corrugation** – offering ideal performance for pleatability.

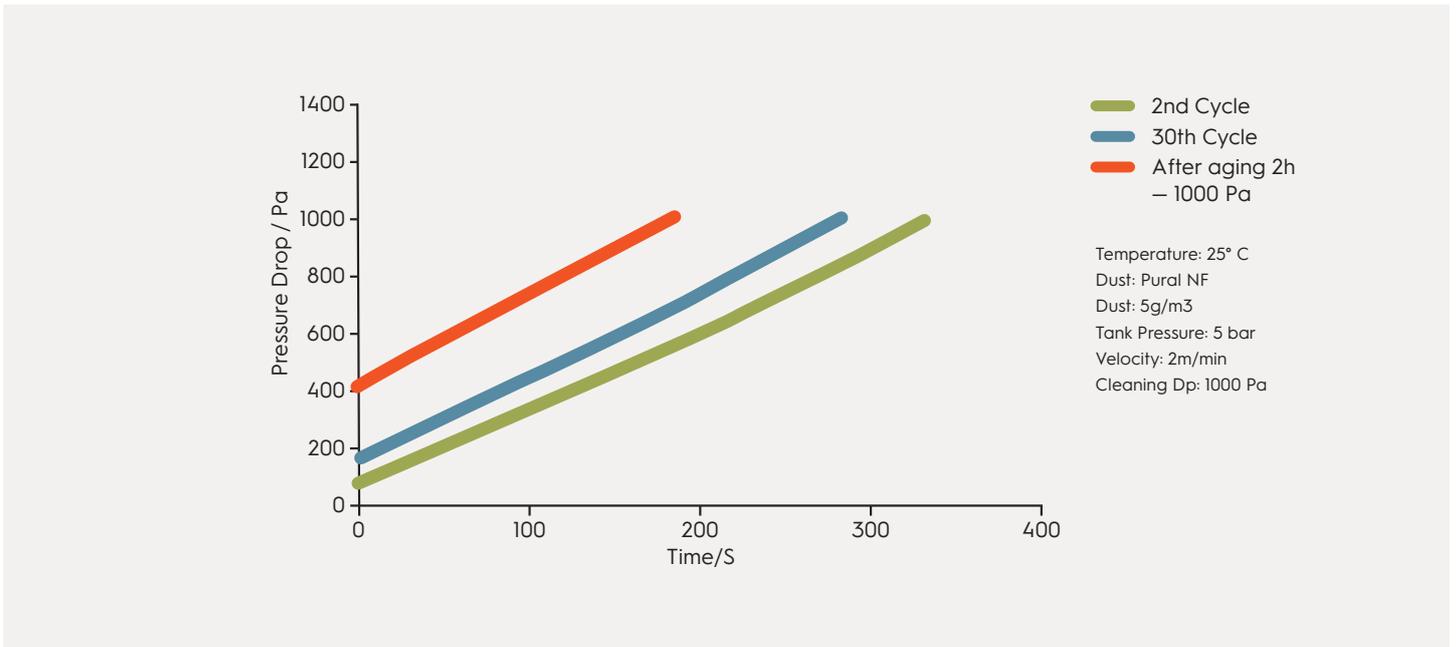
## Ahlstrom-Munksjö Nano GT

NP70 is our main F9 (EN779:2012) **Nano GT** offer, reaching ePM1 80% at very low pressure drop, according to the new ISO16890 standard. It delivers up to 4 times more particulate removal of submicron particles (PM1) than a more traditional M5 material 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. Performance of both base material and nanolayer have been upgraded to guarantee better performance in humid conditions and consistent behaviour along the filter life time.

**Nano GT** grades are also available in a bromine-free Flame Retardant version, reaching F1 according to ISO53468.

### Ideal pulse jet behavior according ISO 11057 (NP70)



### Ahlstrom-Munksjö Nano GT – Key Grade Characteristics

Grades	Basis Weight g/m <sup>2</sup>	Efficiency Class		Thickness µm	Corrugation Depth µm	Air Permeability L/m <sup>2</sup> /s @200 Pa	MD Stiffness g
		EN779-2012	ISO16890				
<b>NP 70</b>	120	F9	ePM1 80%	320	440	145	4.0
<b>NP 70 FR</b>	130	F9	ePM1 80%	360	450	110	3.7

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