

Ahlstrom Nano GT

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

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

Ahlstrom **Nano GT** portfolio is based on our market reference CellTech GT or Synthetic GT corrugated 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 **Nano GT** delivers excellent protection of the gas turbine and long life time for both dry and wet 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.
- ✔ **Covers dry & wet environmental conditions** – available with CellTech and Synthetic corrugated base media, offering ideal performance for pleatability and durability.

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Nano GT offering is reaching F9 (EN779:2012) / ePM1 80% (ISO16890) at very low pressure drop. 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.

NP70 is our main **Nano GT** reference designed for dry environment, combining a CellTech GT base media (cellulose/polyester fiber blend, treated with water repellent chemistry) with a nano layer, delivering consistent behavior along the filter life time.

AK4560NANCS2WR is our main **Nano GT** reference designed for humid environment, combining a Synthetic GT base media (full synthetic fiber blend, treated with water repellent chemistry) with an upgraded nano layer, delivering excellent performances and durability even in high humidity conditions.

Both **Nano GT** references have a deep corrugation which guarantees excellent processing on rotary pleaters and enhanced pleat stability. Flame retardant feature technically available on demand.

Ahlstrom Nano GT – Key Grade Characteristics

Grades	Media Design	Basis Weight	Efficiency Class		Thickness	Corrugation Depth	Air Permeability	MD Stiffness
		g/m ²	EN779-2012	ISO16890	µm	µm	L/m ² /s @200 Pa	g
NP 70	Cellulose/synthetic + nanofibers	120	F9	ePM1 80%	320	440	145	4.0
NP 70 FR	Cellulose/synthetic FR (F1) + nanofibers	130	F9	ePM1 80%	360	450	110	3.7
AK4560NANCS2WR	100% synthetic + nanofibers	117	F9	ePM1 80%	620	430	239	1.9

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