

Ahlstrom-Munksjö **Synthetic GT**

Pulse-jet filtration media for gas turbines operating in wet environment.

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 **Synthetic GT** is based on our CellTech market reference platform, with a full synthetic fiber composition and an hydrophobic treatment.

Self-supported structure is designed for pulse-jet applications, combining best pleatability, excellent durability, plus very good performance for filtering coarse and fine particles.

Ahlstrom-Munksjö **Synthetic GT** delivers extended filter lifetime in humid environmental conditions.

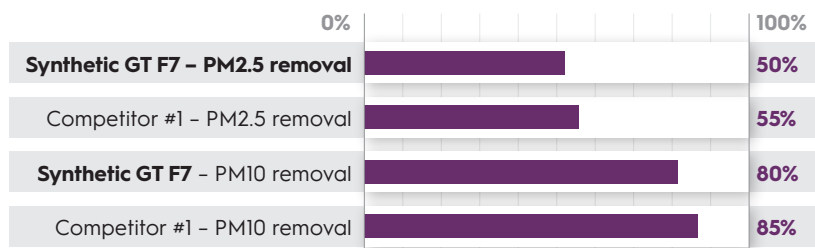
Benefits

- ✔ **100% synthetic structure** – delivering excellent durability in humid conditions.
- ✔ **Delivers ePM2.5 50% & ePM1 80% (ISO16890) efficiency** – effectively protecting gas turbine against coarse and fine dust.
- ✔ **Delivers low pressure drop** – plus optimal pulse-jet cleaning behavior, helping to increase uptime between service intervals.
- ✔ **Features high stiffness** – which delivers ideal performance for pleatability.

Ahlstrom-Munksjö Synthetic GT

Synthetic GT F7 AK4560NCS2WR is our initial grade in the **Synthetic GT** family, reaching F7 (EN779:2012) and ePM2.5 50% (ISO16890) efficiency. With a 100% synthetic structure, it delivers much better processability and filtration performance than the main alternatives available on the market. Also exists as a **Synthetic GT F9** SY5242 PN1WR, reaching F9 (EN779:2012) and ePM1 80% (ISO16890) for better performance on fine particles; still 100% synthetic and non-nanocoated.

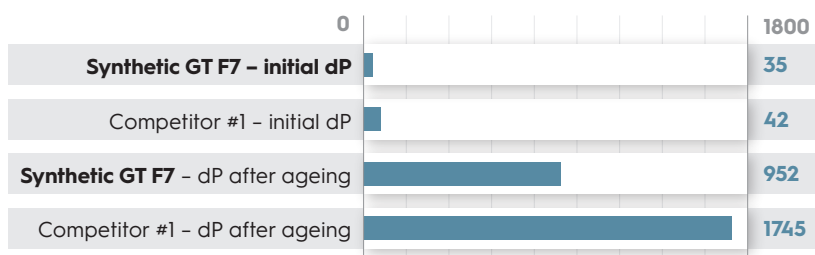
Synthetic GT F7 delivers efficient removal of coarse particles



■ PM2.5 and PM10 removal efficiency (ISO16890)

Synthetic GT F7 is a true F7 / MERV13 filter media reaching >99% removal efficiency of particles with a diameter higher than 5µm.

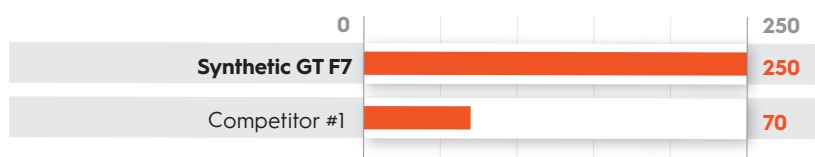
Synthetic GT F7 delivers lower pressure drop and optimal pulse-jet cleaning behavior.



■ Pressure drop in Pa (ISO11057)

Synthetic GT F7 reduces energy consumption and can extend the filter lifetime by a factor 2 in pulse jet configuration.

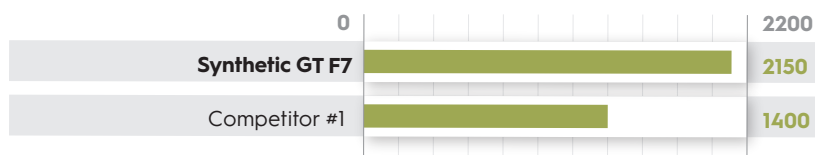
Synthetic GT F7 delivers higher performances in humid environments



■ Water repellency in mmH₂O

Synthetic GT F7 delivers 4 times higher water repellency level for reduced pressure drop peaks, during instances of high humidity.

Synthetic GT F7 delivers ideal performance for pleatability



■ MD Stiffness in mg

Synthetic GT F7 has +35% stiffness and tensile strength which guarantees higher pleating output.

All above data generated from internal testing.

Ahlstrom-Munksjö Synthetic GT F7 - Key Grade Characteristics

Grades	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
TR4560NCS2WR	114	F7	ePM2.5 50%	740	320	265	2.3
SY5242PN1WR	129	F9	ePM1 80%	700	340	140	1.5

Contact Ahlstrom-Munksjö Sales: ✉ filtration@ahlstrom-munksjo.com

www.ahlstrom-munksjo.com



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