

High Efficiency Media for Transmission Filtration

Delivering the cleanest oil to the drive train

The cleanliness of the oil is an increasingly important factor in the performance, reliability and lifetime of the modern automatic transmission systems and the new propulsion solutions for electric vehicles.

Ahlstrom provides a complete range of high efficiency media for pressure transmission filters which ensure the highest level of protection of the drive train against wear. The dual offering meets OEM specifications and guarantees a minimum of 99.5% efficiency on 25µm particles:

- Premium dual-layer glass microfiber media with optional lamination of protective scrims, an ideal choice for high efficiency filtration solutions.
- Proprietary full synthetic Trinitex® 3-layer media with excellent intrinsic mechanical resistance.
- Dual layer media with high synthetic content, a self-supported solution for optimal filtration.

Benefits

- ✓ **Highest filtration efficiency** – low differential pressure and an optimal protection of the drive train against particles.
- ✓ **Extreme durability** – high chemical / thermal resistance, superior media integrity providing reliability even in challenging conditions.
- ✓ **Superior dust holding capacity** – gradient depth filtration solutions increasing service intervals and/or optimizing filter size.
- ✓ **Optimized processing** – easy-to-pleat media along with state-of-the art lamination.

Ahlstrom Glass Transmission

High performance glass microfiber transmission media deliver up to the highest particulate efficiencies, excellent differential pressure and dust holding capacity to match the most demanding OEM requirements. Main efficiency levels are available as single-layer thin media, and as double-layer gradient design reaching up to 60% higher dust holding capacity (ISO16889). Main references are presented in the table below.

All Glass Transmission media can be provided laminated with an extensive range of spunbond and grid, reinforcing the web and improving the processing performances.

		Basis Weight	Beta 200* (99.5%)	Beta 1000* (99.9%)	Thickness	Permeability @200Pa	Dust Holding Capacity*	Burst Strength
Grades	Media Structure	g/m ²	µm	µm	µm	L/m ² /s	g/m ²	kPa
MFPS0901	Single Layer	80	6,2	7,9	490	>110	110	n/a
MFPS1301	Dual Layer	78	9,3	11,5	500	205	150	n/a
MFPS1302	Dual Layer - High DHC	100	10,0	14,0	650	200	206	n/a
MFPS1501	Dual Layer	78	14,0	17,0	500	295	180	n/a
MFPS2001	Dual Layer	78	16,0	19,0	520	385	210	n/a
MFPS2501	Dual Layer	78	19,0	22,5	520	485	210	n/a
M20PS1301	Downstream Lamination	105	9,3	11,5	600	195	150	120
B20PS1301	Up-& Downstream Lamination	130	9,3	11,5	660	190	150	150

Ahlstrom Trinitex® Transmission (High Efficiency range)

Based on our proprietary 3-layer wetlaid technology platform, high efficiency Trinitex® Transmission media contains glass microfibers in the middle layer and polyester fibers on the outer layers. This unique combination delivers excellent filtration efficiency, dust holding capacity and low differential pressure, along with an outstanding mechanical resistance without any lamination need. A valuable alternative for pressure filters but also for Premium suction filters. Main references are presented in the table below.

All Trinitex® Transmission media can be provided laminated with a PBT mesh, for an extended mechanical resistance and an optimal pleat stability in most severe conditions of use.

		Basis Weight	Beta 200* (99.5%)	Beta 1000* (99.9%)	Thickness	Permeability @200Pa	Dust Holding Capacity*	Burst Strength
Grades	Media Structure	g/m ²	µm	µm	µm	L/m ² /s	g/m ²	kPa
K959 100	3 Layers	100	11	14	740	190	100	250
K958 100	3 Layers	100	16	19	800	280	120	300
K1006 140	3 Layers	140	18	22	1000	230	140	750

*Multipass test results according to ISO16889 (flow: 3.5L/min, BUGL: 10mg/L, Test area 113cm², Final Ap 200 kPa)

Ahlstrom Dual Layer Solution (DLS) Transmission

DLS Technology is a one-step dual layer wetlaid manufacturing process combining enhanced lifetime and excellent converting performances. The corrugated bottom layer of DLS Transmission media delivers easy processing on rotary pleater and optimal pleat stability without the addition of any reinforcement backing. The full synthetic top layer adds to this unique design a superior dust holding capacity but also an extended hot oil resistance, enabling longer service intervals.

		Basis Weight	Beta 200* (99.5%)	Beta 1000* (99.9%)	Thickness	Permeability @200Pa	Dust Holding Capacity*	Burst Strength
Grades	Media Structure	g/m ²	µm	µm	µm	L/m ² /s	g/m ²	kPa
17PDL	2 Layers	224	24	27	965	152	170	276

*Multipass test results according to ISO16889 (flow: 3.5L/min, BUGL: 10mg/L, Test area 113cm², Final Ap 200 kPa)

Contact Ahlstrom Sales: ✉ filtration@ahlstrom.com

www.ahlstrom.com



Disclaimer: The information supplied in this document is for guidance only and should not be construed as a warranty. All implied warranties are expressly disclaimed, including without limitation any warranty of merchantability of fitness for use. All users of the material are responsible for ensuring that it is suitable for their needs, environment and end use. All data is subject to change as Ahlstrom deems appropriate.