



EXPANDED PORTFOLIO

Ahlstrom-Munksjö FilteV[®] Transmission

High performance filtration materials for Electric Vehicles

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

Ahlstrom-Munksjö provides a complete range of high performance media for suction and pressure transmission filters which meet OEM requirements:

- Premium glass microfiber media with optional protective scrims, an ideal choice for high efficiency filtration solutions.
- Proprietary full synthetic 3-layer media with excellent durability and a wide range of efficiency covering most filtration requirements.
- Dual layer media with high synthetic content, a self-supported solution for optimal filtration.

Benefits

- ✔ **Highest filtration performances** – low differential pressure and an optimal protection of the drive train against particles
- ✔ **Extreme durability** – high chemical and 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 capability

Ahlstrom-Munksjö FilteV® Glass Transmission

High performance Glass Transmission media deliver up to the highest efficiencies keeping an excellent differential pressure to match the most demanding filtration requirements in electric drive trains. Main efficiency levels are available as double-layer gradient design reaching up to 60% higher dust holding capacity compared to a single-layer. All Glass Transmission references can be delivered laminated with various spunbonds for reinforcement and improved processing performances.

| | | Basis Weight | Beta 200* (99.5%) | Beta 1000* (99.9%) | Thickness | Permeability | Dust Holding Capacity* | Burst Strength |
|----------|-----------------------|------------------|----------------------|-----------------------|-----------|---------------------|------------------------|----------------|
| Grades | Media Structure | g/m ² | µm | µm | µm | L/m ² /s | g/m ² | kPa |
| EVPS0901 | Single Layer | 80 | 6.2 | 7.9 | 490 | >110 | 110 | n/a |
| EVPS1301 | Dual Layer | 78 | 9.3 | 11.5 | 500 | 205 | 150 | n/a |
| EVPS1302 | Dual Layer - High DHC | 100 | 10.0 | 14.0 | 650 | 200 | 206 | n/a |
| EVPS1501 | Dual Layer | 78 | 14.0 | 17.0 | 500 | 295 | 180 | n/a |
| EVPS2001 | Dual Layer | 78 | 16.0 | 19.0 | 520 | 385 | 210 | n/a |
| EVPS2501 | Dual Layer | 78 | 19.0 | 22.5 | 520 | 485 | 210 | n/a |

Ahlstrom-Munksjö FilteV® Synthetic Transmission

Based on our proprietary 3-layer wetlaid technology platform, Synthetic Transmission media deliver a unique combination of high dust holding capacity and low differential pressure for a wide range of particulate efficiency. The full synthetic structure guarantees an outstanding resistance to ageing in challenging conditions, along with an excellent mechanical stability for the highest reliability of electric drivetrains. A premium solution for flat and pleated suction designs but also pressure filters. All Synthetic Transmission media can be provided laminated with a PBT mesh for optimal pleat stability in all conditions of use.

| | | Basis Weight | Beta 200* (99.5%) | Thickness | Permeability | Burst Strength | Stiffness |
|-----------|-----------------|------------------|-------------------|-----------|---------------------|----------------|-----------|
| Grades | Media Structure | g/m ² | µm | µm | L/m ² /s | kPa | mg |
| K1005 140 | 3-layer | 140 | 20 | 100 | 210 | 750 | 2000 |
| K894 150 | 3-layer | 150 | 25 | 800 | 320 | 800 | 2800 |
| K891 170 | 3-layer | 170 | 50 | 1050 | 650 | 1300 | 4000 |
| K1982 120 | 3-layer | 120 | 100 | 850 | 1400 | 940 | 1700 |
| K1160 150 | 3-layer | 150 | 140 | 1100 | 2100 | 1200 | 4900 |

NEW Ahlstrom-Munksjö FilteV® 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%) | Thickness | Permeability | Burst Strength | Stiffness |
|-----------|-----------------|------------------|-------------------|-----------|---------------------|----------------|-----------|
| Grades | Media Structure | g/m ² | µm | µm | L/m ² /s | kPa | mg |
| 17PDL-TAY | 2-layer | 235 | 24 | 965 | 145 | 240 | 6300 |

*Multipass test results adapted from ISO16899 (flow: 3.5L/min, BUGL: 10mg/L, Test area 113cm², Final Ap 200 kPa).

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