



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 the modern transmission systems and the 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.

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
- ✔ **State-of-the-art lamination capabilities** – complementing media with scrims and grids

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 oil filtration requirements in electric drive train. Main efficiency levels are available as double-layer gradient design reaching up to 60% higher dust holding capacity compared to single-layer designs. Main references are presented in the table below.

All Glass Transmission media can be provided with an extensive range of spunbond and mesh, reinforcing the web and improving the 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

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

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 drive trains. A Premium solution for flat and pleated suction designs but also pressure filters. Main references are presented in the table below.

All Synthetic 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%)	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

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

www.ahlstrom-munksjo.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-Munksjö deems appropriate.

© Ahlstrom-Munksjö 2021