High Permeability Media for Transmission Filtration

Delivering an optimal protection 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 permeability media for suction transmission filters which meets OEM specifications, and ensure both high flow and optimal protection of the drive train:

- Full synthetic wetlaid media, delivering excellent durability and improved filtration performances.
- New generation of full synthetic 3-layer Trinitex® media, delivering best dust holding capacity and optimal differential pressure.

Benefits

- **Low differential pressure** – combined with high particulate efficiency for an optimal protection
- **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.
- **Enhanced processability** – ideal solutions for both pleated and flat suction filters.

Ahlstrom Synthetic Transmission

100% polyester media reinforced with a thermoset acrylic resin delivering optimal resistance to ageing in challenging conditions, along with an excellent mechanical stability for the highest reliability of the filtration unit. The wetlaid production process enables improved efficiency, keeping a lower differential pressure and an excellent dust holding capacity. Synthetic transmission media represent the new generation of filtration solutions for flat and pleated type suction filters.

	Basis Weight	Beta 200* (99.5%)	Thickness	Permeability @200Pa	Burst Strength	Stiffness
Grades	**g/m²**	**µm**	**µm**	**L/m²/s**	**kPa**	**mg**
AK05200PNCS2	250	120**	1450	1680	490	6000
AK1185PNCS2	160	100**	980	1120	490	3000

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

** Aapted from SAJE J2312:2013

Ahlstrom Trinitex® Transmission (High Permeability range)

Based on our proprietary 3-layer wetlaid technology platform, high permeability Trinitex® Transmission media deliver a unique combination of dust holding capacity and differential pressure for a wide range of particulate efficiency. The full synthetic 3D structure guarantees an optimal resistance to ageing in challenging conditions, along with an excellent mechanical stability for the highest reliability of the filtration unit; the next generation of media for suction filter..

	Basis Weight	Beta 200* (99.5%)	Thickness	Permeability @200Pa	Burst Strength	Stiffness
Grades	**g/m²**	**µm**	**µm**	**L/m²/s**	**kPa**	**mg**
K1147 150	150	140**	1100	2000	1200	4000
K982 120	120	100**	850	1400	900	1700
K890 170	170	50*	1100	650	1100	3400
K893 150	150	25*	900	350	700	2000

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

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All 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.

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