



# 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 life time 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:

- Conventional needle felt media saturated with a thermoset resin for flat designs.
- New generation of full synthetic wet-laid media for flat and pleated designs, delivering excellent durability and improved filtration performances.

## 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 Needle Felt Transmission

100% polyester needle felt media reinforced with a thermoset acrylic resin for an optimal resistance to ageing in challenging conditions; it delivers 50% efficiency on 100µm particles and an extended dust holding capacity. An excellent alternative to needle felt media used in flat type suction filters.

		Basis Weight	Beta 2* (50%)	Thickness	Permeability	Burst Strength	Stiffness
Grades	Media Structure	g/m <sup>2</sup>	µm	µm	L/m <sup>2</sup> /s	kPa	mg
<b>AK04190P</b>	Needle Felt	280	100	1900	2280	1000	9400

## 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 wet-laid production process enables an improved efficiency and pleatability, keeping a lower differential pressure and an outstanding 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	Burst Strength	Stiffness
Grades	Media Structure	g/m <sup>2</sup>	µm	µm	L/m <sup>2</sup> /s	kPa	mg
<b>AK05200PNCS2</b>	Synthetic	252	140	1450	1760	657	8800
<b>AK1185PNCS2</b>	Synthetic	160	200	960	1313	657	3000

## 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	Burst Strength	Stiffness
Grades	Media Structure	g/m <sup>2</sup>	µm	µm	L/m <sup>2</sup> /s	kPa	mg
<b>K1147 150</b>	3 Layers	150	140	1100	2100	1200	4900
<b>K982 120</b>	3 Layers	120	100	850	1400	940	1700
<b>K890 170</b>	3 Layers	170	50	1050	650	1300	4000
<b>K893 150</b>	3 Layers	150	25	800	320	800	2800

\*Multipass test results adapted from ISO16899 (flow: 3.5L/min, BUGL: 10mg/L, Test area 113cm<sup>2</sup>, Final Ap 200 kPa).

Contact Ahlstrom Sales: ✉ [filtration@ahlstrom.com](mailto:filtration@ahlstrom.com)

[www.ahlstrom.com](http://www.ahlstrom.com)



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