

Filter Fleece Rolls

Voigt - Filter fleece rolls are used for separating solids from liquids, mainly for machining processes such as grinding, milling and turning. Individual requirements regarding flow rate, particle size, viscosity or purity determine the filter fleece to be used. The fineness of filtration refers to nonwoven filters in a clogged condition. However, the nature and composition of the filter cake can significantly influence the purity and absolutely reach half of the specified values.

When it comes to choosing a suitable nonwoven, various factors have to be considered. The fleece has to be selected so as to guarantee the largest possible separation efficiency, but without reducing the flow of the liquid due to a strong pressure drop.

From the mode of action of the nonwoven we can differentiate between surface filtration and depth filtration. Nonwovens with depth filtration effect have a voluminous structure. If the filtrate flows through such a nonwoven, smallest particles remain stuck in the fiber labyrinth. In this position these smallest particles contribute to a further increase of the filtration. This accumulation of particles is called a "filter cake". In case of nonwovens for the surface filtration the particle congestion and the formation of the cake take place only on the surface of the fleece. The surface accordingly clogs very fast, a high pressure drop occurs, the water rises, the filter is pushed forward.



- **Quality VEC** (Three-dimensional filter fleece made of polyester / viscose with chemical cross lapped solidification. Universally applicable.)

Technical Data

Quality VEF	
Weight (g/m ²)	80 / 100 / 150
LDL (l/m ² s)	2500 / 2000 / 1300
Roll width (mm)	500 - 2000
Roll length (m)	50 / 100 / 150

Quality VEB	
Weight (g/m ²)	20 / 30 / 50
LDL (l/m ² s)	5500 / 4500 / 3000
Roll width (mm)	500 - 1500
Roll length (m)	100 / 150 / 200 / 250

Quality VES	
Weight (g/m ²)	20 / 30 / 50
LDL (l/m ² s)	5600 / 5000 / 2500
Roll width (mm)	500 - 2000
Roll length (m)	100 / 200 / 250

Quality VEC	
Weight (g/m ²)	50 / 60 / 80 / 100 / 125
LDL (l/m ² s)	4650 - 1940
Roll width (mm)	500 - 2000
Roll length (m)	50 / 100

Filter fleeces

- **Quality VEF** (Needled nonwoven made of polyester with good chemical resistance. Depth filter medium with high storage capacity.)
- **Quality VEB** (Nonwoven made of viscose and solidified with binder. Universally applicable.)
- **Quality VES** (Thermally bonded spunbond fabric made of polyester or polypropylene with great strength both lengthwise and crosswise. Universally applicable.)

Applications

- ✓ Cooling lubricants
- ✓ Oils, low-viscosity
- ✓ Washing liquids