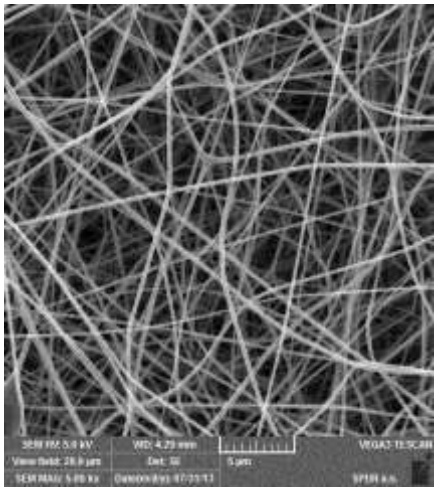
SpurTex MF RF

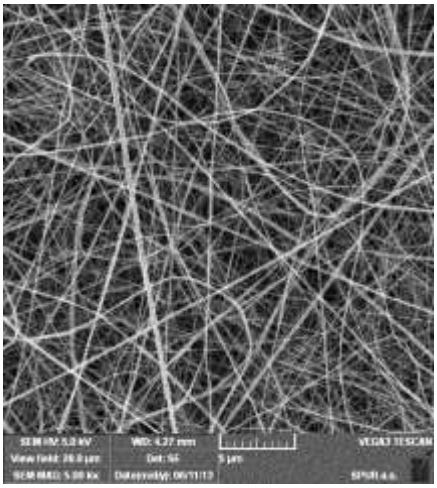
Reinforced multilayer cleanable nanostructured filtration material for microfiltration of liquids

- **excellent retention of bacteria and fine solids**
- **increased performance (higher flux and nanostructure reinforcing)**

Materials	
Filtration layer	Polyurethane or Polyvinylidene fluoride nanostructure
Drainage	Microporous open cell materials
Support layers	Polyester woven textile or Polypropylene nonwoven textile or glass paper

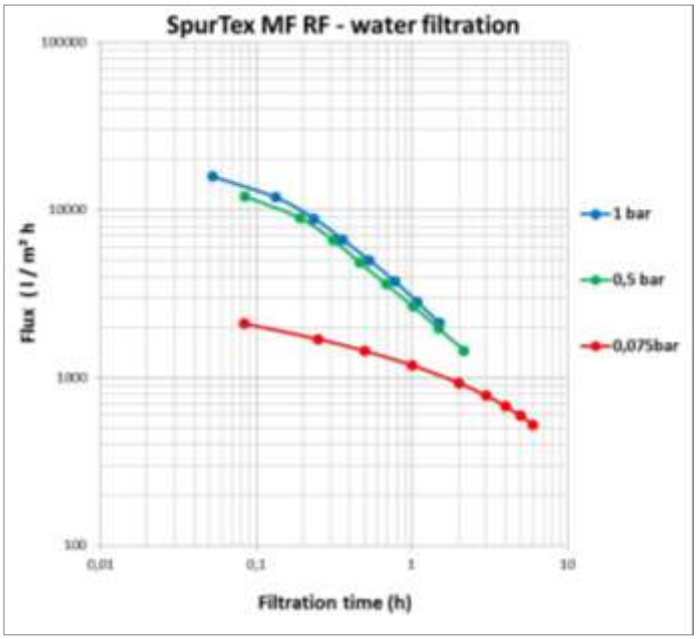


PU nanostructured membrane surface, magnification 5 000x

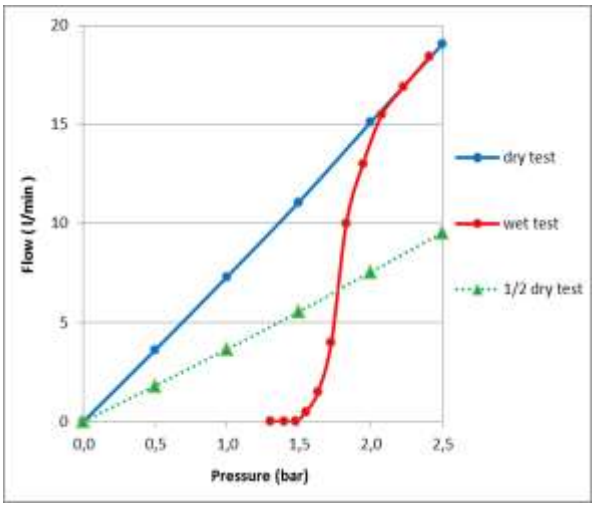


PVDF nanostructured membrane surface, magnification 5 000x

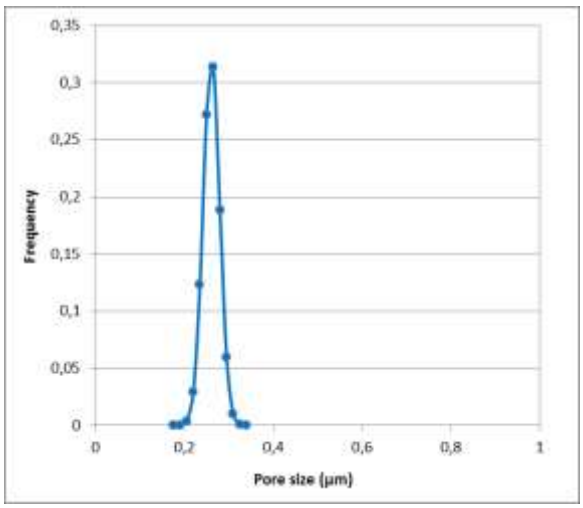
Membranes Properties		Conditions
Average pore size	250 nm	ASTM F316-03
Initial water flux	> 2 000 l/m^{2}h	23°C; 0,075 bar; distillated water
Operating pressure	< 3 000 mbar	
Back washing pressure	< 1 000 mbar	Usual cleaning processes are recommended
pH applicability	3 - 12	
Max. operating temperature	60°C	



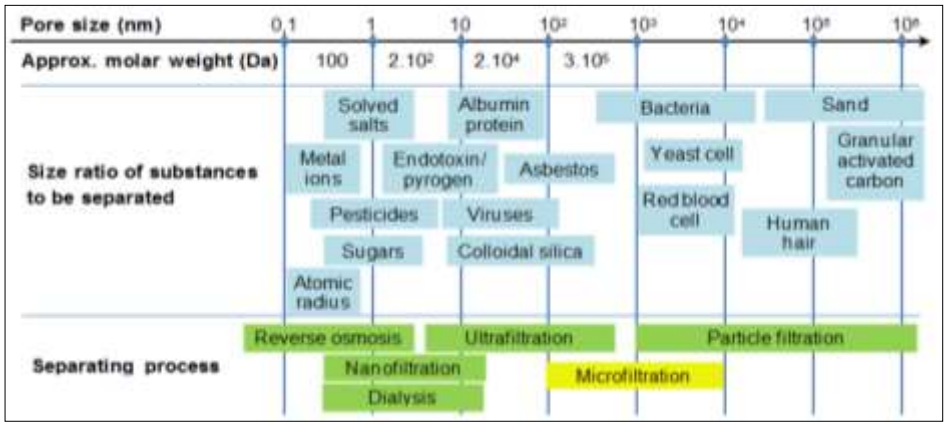
Flux through SpurTex microfiltration membrane based on PVDF nanostructure placed on microporous open cell material



Wet and dry test for membrane filter pore size characteristics by bubble point and mean flow pore test (ASTM F316-03)



Pore size distribution in SpurTex MF RF membrane filter



Pore sizes of filtration materials, sizes of eliminated particles and adequate separating processes