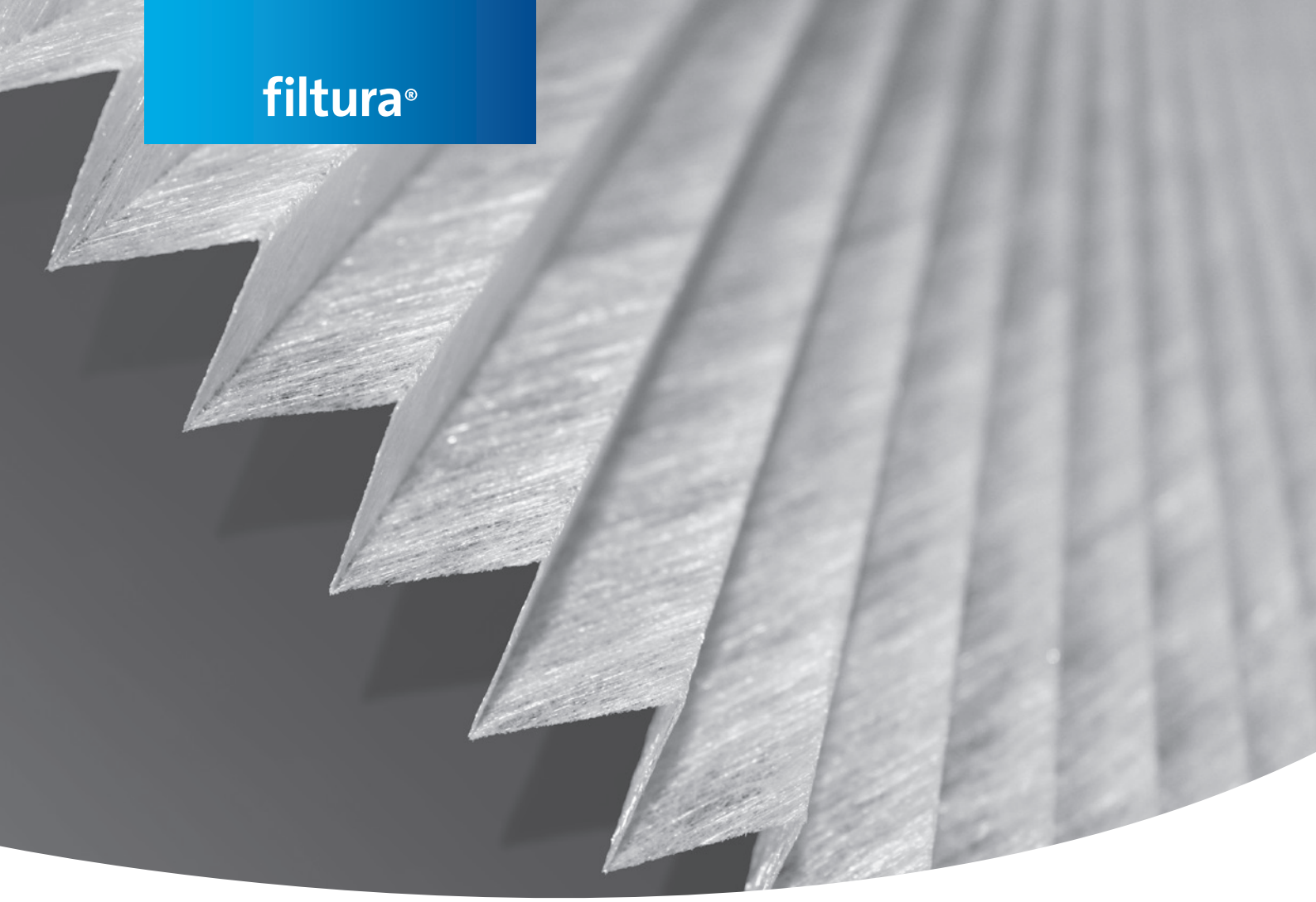
filtura®



FUNCTIONALIZED SPUNBOND NONWOVENS

FILTER SUPPORT LAYERS WITH ANTIBACTERIAL PROPERTIES

Applied as filter support layers, Filtura® spunbond nonwovens are known for the benefits they offer to filter manufacturers and their users alike: Enhanced filtration and energy efficiency, as well as a long service life. Now there is a product variant which adds yet another dimension to the equation. Our new range of Filtura spunbond nonwovens comes with antibacterial properties.

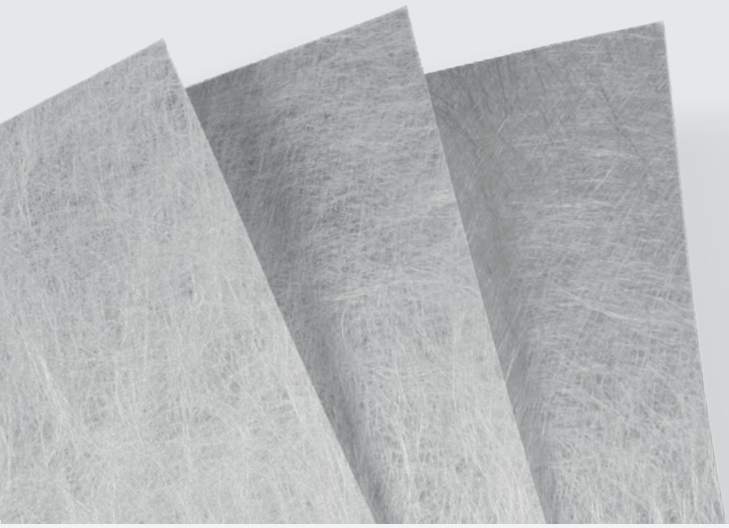
The range of functionalized spunbond nonwovens is based on the long-established Filtura® technology. It involves spinning endless bi-component filaments followed by a special laying-down and bonding technique, which results in a dimensionally stable and easily pleatable fabric that provides high air permeability. But, after in-depth research and development work, the unique process now can be extended by a special melting process. This process facilitates the uniform distribution of antibacterial agent over the full surface of the nonwoven fabric.

Features and benefits

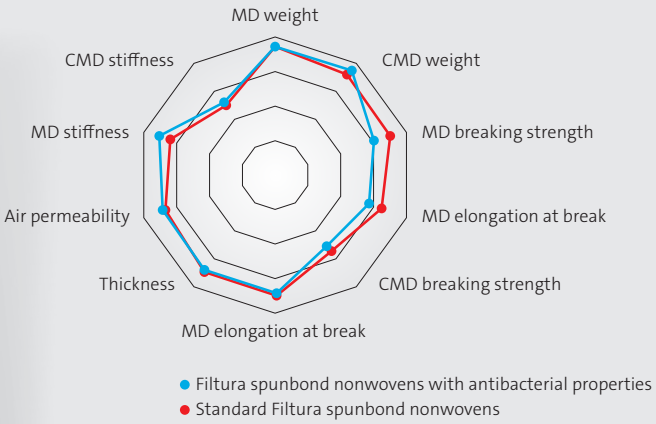
- Long-term reliable antibacterial effect:
  Product performance assessment showed that the antibacterial rate remained above 99.9% after 50 washing cycles* and 8 hours UV testing**

* FZ/T73023_2006 antibacterial knitwear, AATCC 1993 Standard Reference Detergent Powder

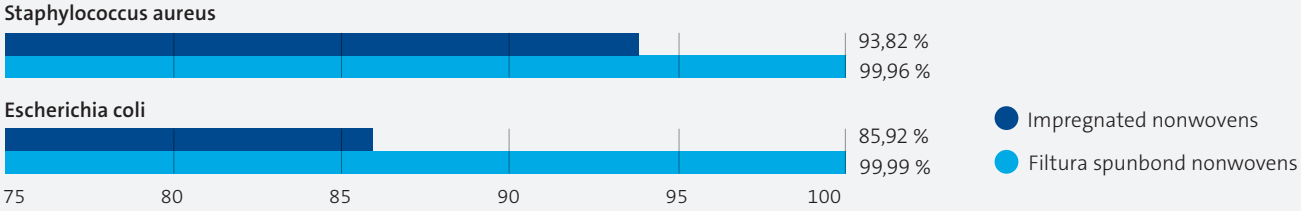
** AATC 186 option 1



Basic performance comparison



Antibacterial activity after 50 washing cycles with standard detergent



TYPICAL APPLICATIONS		
Automotive filters	**Residential air filters**	**Industrial air filters**
Cabin air filters	Indoor air purifiers	Air pollution control
Engine air filters	HVAC systems	Electric fan filtration systems
	Household appliance filters	Gas turbine filters

- Same high air permeability as the standard Filtura® spunbond nonwoven range guarantees low pressure drop and maximizes energy efficiency (outperforms fabrics impregnated with antibacterial agent)
- Excellent dimensional stability at up to 100° C
- Facilitates sharp and stable pleats
- Uniform structure guarantees excellent processability and high quality of the finished filter element
- Suitable for application in the most diverse filter configurations
- Glue- and VOC-free
- Custom roll dimensions possible

Automotive filters

For more than a decade, Filtura® spunbond nonwovens have been frequently applied as a support material for automotive air filter media. The range also includes product options with an integrated filtration layer optimized for this end-use. Filtura® spunbond nonwovens, with antibacterial functionality, inhibit the growth of bacteria inside the air filter. They help avoid health risks, ensure excellent air quality, and make a valuable contribution to the long-term efficiency of the filter system.

Residential and industrial air filters

Filtura® spunbond nonwoven fabrics with antibacterial functionality are suitable for use in panel, box and pocket filters. While panel filters greatly benefit from the pleatability and dimensional stability of nonwovens, these materials also contribute to enhancing the stiffness of pocket filters. In all filter configurations, their antibacterial properties prevent the spread of microbes, thus safeguarding healthy indoor air.

Quality Management

Our Quality Management Systems have been approved to the ISO 9001 Quality Management System Standard. Certificates are available on request.

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