

## **NEW HIGH-PERFORMANCE CABIN AIR FILTERMEDIA CLASS BASED ON NANOFIBER TECHNOLOGY**

Thomas Heininger<sup>1</sup>, Christoph Krautner<sup>1</sup>, Matthias Heinzmann<sup>1</sup>

<sup>1</sup>MANN+HUMMEL

The threat imposed by fine particulate matter is getting more and more into focus of the public discussion as more regions are suffering of high concentration (exceeding the Limit values) of particulate matter in the environment. Beside the well-known PM<sub>2.5</sub> class the finer fractions of PM<sub>1</sub> and the ultrafine particles (UFP < 0.1 µm) are identified as important size range of particles that needs to be considered. Vehicle passengers potentially can be exposed to high concentrations of these ultrafine particles if no suitable measures are taken by installing a high- performance cabin air filter. By introducing the nanofiber technology it is expected that a new filter media class can be developed that can contribute to reach a excellent In Cabin Air Quality to protect passenger from fine particulate matter and the associated health risks.