

Cabin Air Filtration: An Application of Electret Media

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Abstract

Filter design is a balance of efficiency, pressure drop, filter life and cost. This presentation will review cabin air filtration, technologies used in the particle and combination filters, and test standards used for performance evaluation. The status of cabin air filtration will be discussed with respect to the use of electret media for particle filtration and the tendency towards nano particle filtration.

Bio-sketch

Dr. Christine Sun is R&D manager of Freudenberg Filtration Technologies, L.P., located in Hopkinsville, KY. She obtained Ph.D. in Chemical Engineering in June 1995 from Tsinghua Univ., Beijing. Prior to current job, Dr. Sun was a research professor of Textile and Nonwovens Development Center, The University of Tennessee. She has over 17 year experience in Nonwovens and filter media, 10 year hand-on experience in the industry from process development to product characteristics study and to end user applications, publishing over 85 technical papers in the area. Currently Dr. Sun is an active member of ASHRAE, AFS, TAPPI, SAE, INDA, NAFA and ISO work groups.

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