AN OVERVIEW ON INDOOR AIR QUALITY AND IMPROVING GAS-PHASE ADSORPTIVE FILTERS

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Globally there is an increase in awareness of the effects of indoor air pollutants, and an increase in efforts to reduce them. This presentation will provide an overview of market trends, regulations addressing indoor air quality and an understanding of indoor air pollutants with an emphasis on removal of gaseous pollutants. Recent results will be presented on filter media with improved performance. These were exposed to three test gases representing three different classes of gas types as follows:

- 1. Cyclohexane (as a benchmark for organic vapors)
- 2. Nitrogen dioxide (as a benchmark for acidic gases)
- 3. Formaldehyde

Each gas type above is recognized as commonly present in either outdoor urban air pollution (smog) or indoor air pollution (cooking, odors, off gassing from construction materials, etc.). Results are presented in terms of performance efficiency and gas capacity.