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Smoke Component Yields from Bench-Scale Fire Tests: 4. Comparison of Bench-Scale

By NIST

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A standard procedure is needed for obtaining smoke toxic potency data for use in fire hazard and risk analyses. Room fire testing of finished products is impractical, directing attention to the use of apparatus that can obtain the needed data quickly and at affordable cost. In this work we compare yields of toxic gases generated by four bench scale apparatus to previously conducted room-scale fires. The bench scale apparatus are the radiant apparatus in NFPA 269 and ASTM E 1678, the smoke density chamber in ISO 5659-2, a controlled-atmosphere version of the cone calorimeter (ASTM E 1354), and the tube furnace in ISOTS 19700. In the bench scale experiments, the test specimens were cut from finished products that were also burned in the room-scale tests: a sofa made of upholstered cushions on a steel frame, particleboard bookcases with a laminated finish, and household electric cable. The yields of CO₂, CO, HCl, and HCN were determined. The yields of other toxicants (NO, NO₂, formaldehyde, and acrolein) were below the detection limits, but volume fractions at the detection limits were...



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