#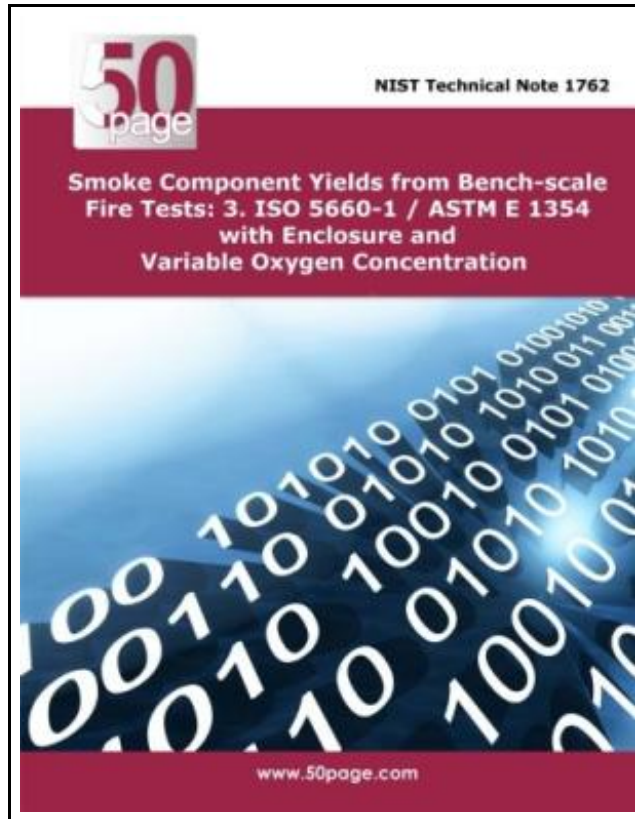 Smoke Component Yields from Bench-Scale Fire Tests: 3. ISO 5660-1 ASTM E 1354 with Enclosure and Variable Oxygen Concentration

Filesize: 6.59 MB

Reviews

Excellent eBook and helpful one. This can be for all who statte there was not a worthy of studying. You will not feel monotony at at any moment of your respective time (that's what catalogs are for regarding when you request me).

(Princess McCullough)

SMOKE COMPONENT YIELDS FROM BENCH-SCALE FIRE TESTS: 3. ISO 5660-1 ASTM E 1354 WITH ENCLOSURE AND VARIABLE OXYGEN CONCENTRATION

To get **Smoke Component Yields from Bench-Scale Fire Tests: 3. ISO 5660-1 ASTM E 1354 with Enclosure and Variable Oxygen Concentration** eBook, please refer to the web link under and save the document or have access to other information which might be related to SMOKE COMPONENT YIELDS FROM BENCH-SCALE FIRE TESTS: 3. ISO 5660-1 ASTM E 1354 WITH ENCLOSURE AND VARIABLE OXYGEN CONCENTRATION book.

Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 54 pages. Dimensions: 11.0in. x 8.5in. x 0.1in.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. This report presents examination of the fourth of a series bench-scale fire tests to produce data on the yields of toxic products in both pre-flashover and post-flashover flaming fires. The apparatus is the ISO 5660-1 ASTM E 1354 cone calorimeter, modified to have an enclosure and a gas delivery system allowing variable oxygen concentration. The test specimens was cut from finished products that were also burned in room-scale tests: a sofa made of upholstered cushions on a steel frame, particleboard bookcases with a laminated finish, and household electric cable. Initially, the standard test procedure was followed. Subsequent variation in the procedure included reducing the supplied oxygen volume fraction to 0. 18, 0. 16, and 0. 14, reducing the incident heat flux to 25 kWm2, and reducing the gas flow rate by half. 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 shown to be of limited toxicological importance relative to the detected toxicants. In general, performing the tests at the reduced oxygen volume fraction led to small increases on the toxic gas yields. The exceptions were an increase in the CO yield for the bookcase at 0. 14 oxygen volume fraction. Reducing the incident heat flux had little effect on the toxic gas yields, other than increasing variability. Reducing the gas flow...

📄 Read Smoke Component Yields from Bench-Scale Fire Tests: 3. ISO 5660-1 ASTM E 1354 with Enclosure and Variable Oxygen Concentration Online

📄 Download PDF Smoke Component Yields from Bench-Scale Fire Tests: 3. ISO 5660-1 ASTM E 1354 with Enclosure and Variable Oxygen Concentration

Other PDFs

[PDF] Absolutely Lucy #4 Lucy on the Ball A Stepping Stone BookTM

Follow the hyperlink below to get "Absolutely Lucy #4 Lucy on the Ball A Stepping Stone BookTM" document.

Download PDF »

[PDF] The Mystery at Motown Carole Marsh Mysteries

Follow the hyperlink below to get "The Mystery at Motown Carole Marsh Mysteries" document.

Download PDF »

[PDF] Animalogy: Animal Analogies

Follow the hyperlink below to get "Animalogy: Animal Analogies" document.

Download PDF »

[PDF] Eagle Song Puffin Chapters

Follow the hyperlink below to get "Eagle Song Puffin Chapters" document.

Download PDF »

[PDF] The Stories Julian Tells A Stepping Stone BookTM

Follow the hyperlink below to get "The Stories Julian Tells A Stepping Stone BookTM" document.

Download PDF »

[PDF] Viking Ships At Sunrise Magic Tree House, No. 15

Follow the hyperlink below to get "Viking Ships At Sunrise Magic Tree House, No. 15" document.

Download PDF »