



National Institute of Standards & Technology

Certificate

Standard Reference Material 1002d

Surface Flammability Standard

This Standard Reference Material (SRM) is intended for use in checking the operation of radiant-panel test equipment in accordance with the calibration and standardization techniques described in ASTM Standard E162-78, Test for Surface Flammability of Materials Using a Radiant Heat Source.

This SRM consists of four sheets of tempered fibrous-felted hardboard, 457 x 152 x 6 mm (18 x 6 x 1/4 in). It is certified for its Flame Spread Index, I, and its Heat Evolution Factor, Q.

Property	Number of Tests	Value	Coefficient of Variation (%)
Flame Spread Index, I	15	203	5.2
Heat Evolution Factor, Q	15	42.0	3.8

The coefficient of variation is the ratio of the standard deviation to the average value expressed as a percent.

Tests over a month period were made on the smoother side (opposite the label) of representative samples of this lot, which had previously been dried and conditioned (see Conditioning).

The wire mesh screen previously required when testing this SRM was not used for recertification testing. More even burning and well defined flame fronts are obtained without the wire screen.

Conditioning: Before testing, SRM 1002d must be dried for 24 hours at 60 °C, and then conditioned to equilibrium at 23 ± 3 °C and 50 ± 5 percent relative humidity.

This SRM is anticipated to have an indefinite shelf-life under normal use and storage conditions.

The tests and measurements leading to the certification of this SRM were performed by J.R. Lawson of the NIST Center for Fire Research.

The technical and support aspects involved in the preparation, certification, and issuance of this Standard Reference Material were coordinated through the Office of Standard Reference Materials by R.W. Seward and A. Dragoo.

August 24, 1989
Gaithersburg, MD 20899

Stanley D. Rasberry, Chief
Office of Standard Reference Materials