U.S. Department of Commerce
Juanita M. Kreps
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tional Bureau of Standards
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# National Bureau of Standards Certificate

## Standard Reference Material 1002c

### Surface Flammability Standard

This Standard Reference Material 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 | 20 | 153 | 3.5 |
| Heat Evolution Factor, Q | 20 | 36.5 | 5.1 |

Tests over a three 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). To minimize separation and variable char deflection of the flame, a wire mesh screen was placed on the specimen surface and used in all tests. The type of screen and procedure used is described in paragraph 5.9.2 of ASTM Standard E162-78. The screen should be used for all tests of this SRM.

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

The tests and measurements leading to the certification of this Standard Reference Material were performed by T. G. Lee of the NBS Center for Fire Research.

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

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J. Paul Cali, Chief
Office of Standard Reference Materials