REPORT OF TEST

SGS U.S. Testing Company Inc.
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CLIENT: Kemlite Company Inc.
P.O. Box 2429
Joliet, Illinois 60434

SUBJECT: Surface Burning Characteristics of Building Materials

AUTHORIZATION: Kemlite Company, Inc., Purchase Order Number 11797 dated January 12, 1996.

SAMPLE ID: One (1) sample of a suspended ceiling grid system was submitted and identified by the Client as: Kemlite Sanigrid[R] Tee Sample.

TEST PROCEDURE: The submitted sample was tested for Flammability in accordance with the procedures outlined in ASTM E-84-94.

TEST DATES: February 8, 1996, Sample Received January 19, 1996.

RESULTS: Continued on Page 2

PREPARED BY:

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Fire Technology

SIGNED FOR THE COMPANY BY:

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Performance Testing & Standards Evaluation

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REPORT OF TEST

CLIENT: Kemlite Company Inc.

INTRODUCTION:

This report presents test results of Flame Spread and Smoke Developed Values per ASTM E-84-94. The report also includes Material Identification, Method of Preparation, Mounting and Conditioning of the specimens.

The tests were performed in accordance with the specifications set forth in ASTM E-84-94, "Standard Test Method for Surface Burning Characteristics of Building Materials", both as to equipment and test procedure. This test procedure is similar to UL-723, ANSI No. 2.5, NFPA No. 255 and UBC 42-1.

The test results cover two parameters: Flame Spread and Smoke Developed Values during a 10-minute fire exposure. Inorganic cement board and red oak flooring are used as comparative standards and their responses are assigned arbitrary values of 0 and 100, respectively.

PREPARATION AND CONDITIONING:

Main runner tees were placed 14 inches apart and butted to produce two (2) 24 foot long rails, with a cross tee every four (4) feet. The material was placed over a 2-inch galvanized hexagonal wire mesh supported by steel rods spanning the width of the tunnel. The tee dimensions were approximately 1" wide x 1-1/4" deep x 1/8" thick.

The sample was conditioned at 73° ± 5° Fahrenheit and 50 ± 5% relative humidity.

TEST PROCEDURE:

The tunnel was thoroughly pre-heated by burning natural gas. When the brick temperature, sensed by a floor thermocouple, had reached the prescribed 105° Fahrenheit ± 5° Fahrenheit level, the sample was inserted in the tunnel and test conducted in accordance with the standard ASTM E-84-94 procedures.

The operation of the tunnel was checked by performing a 10-minute test with inorganic board on the day of the test.

REPORT OF TEST

CLIENT: Kemlite Company Inc.

TEST RESULTS:

The test results, calculated in accordance with ASTM E-84-94 for Flame Spread and Smoke Developed Values are as follows:

Test Specimen	:	Kemlite Sanigrid ® Tee Sample
Flame Spread Index*	:	10
Smoke Developed Value*	:	65

*Graphs of the Flame Spread, Smoke Developed and Time-Temperature are shown in Figures 1, 2 and 3 at the end of this report.

OBSERVATIONS:

Ignition was noted at 1 minute along with charring of the specimen directly exposed to the flame. The flamefront advanced a maximum distance of 3 feet at 5 minutes, 30 seconds. Afterburn was evident upon test completion.

RATING:

The National Fire Protection Association Life Safety Code 101, Section 6-5.3, "Interior Wall and Ceiling Finish Classification", has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with NFPA 255, "Method of Test of Surface Burning Characteristics of Building Materials", (ASTM E-84).

The classifications are as follows:

Class A Interior Wall & Ceiling Finish:	Flame Spread	-	0-25;
	Smoke Developed	-	0-450
Class B Interior Wall & Ceiling Finish:	Flame Spread	-	26-75;
	Smoke Developed	-	0-450
Class C Interior Wall & Ceiling Finish:	Flame Spread	-	76-200;
	Smoke Developed	-	0-450

Since the sample received a Flame Spread of 10 and a Smoke Developed Value of 65, it would fall into the Class A Interior Wall & Ceiling Finish Category.

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End of Report

REPORT OF TEST

United States Testing Company, Inc.

FLAME SPREAD

SAMPLE Sanigrid Tee Samples

RED OAK

TEST NO. 117144
TEST DATE February 08,1996
C. Board

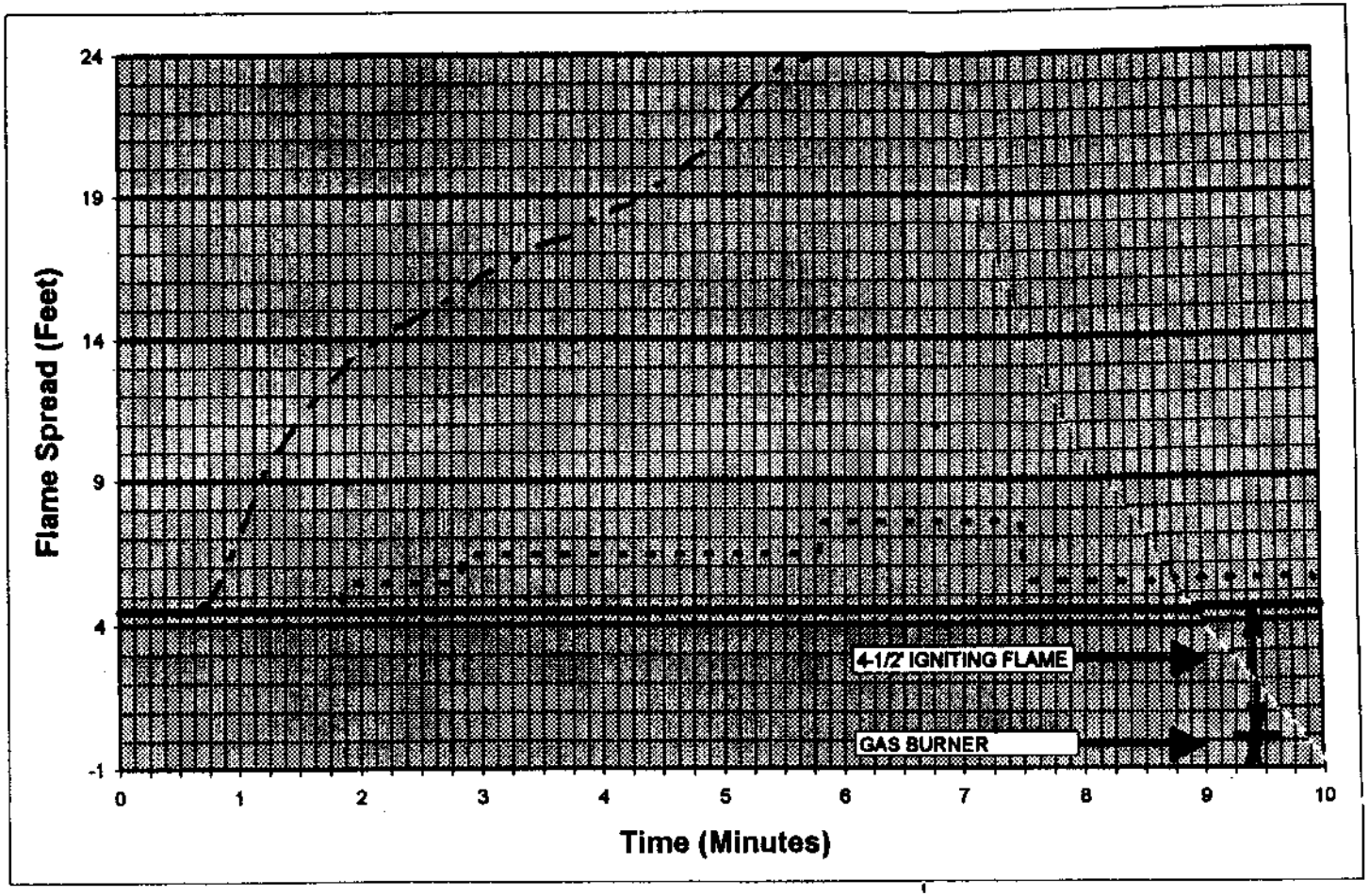


Figure 1

REPORT OF TEST

United States Testing Company, Inc.

SMOKE DEVELOPED

SAMPLE Sanigrid Tee Samples

RED OAK

TEST NO. 117144
TEST DATE February 08, 1996
I.C. Board

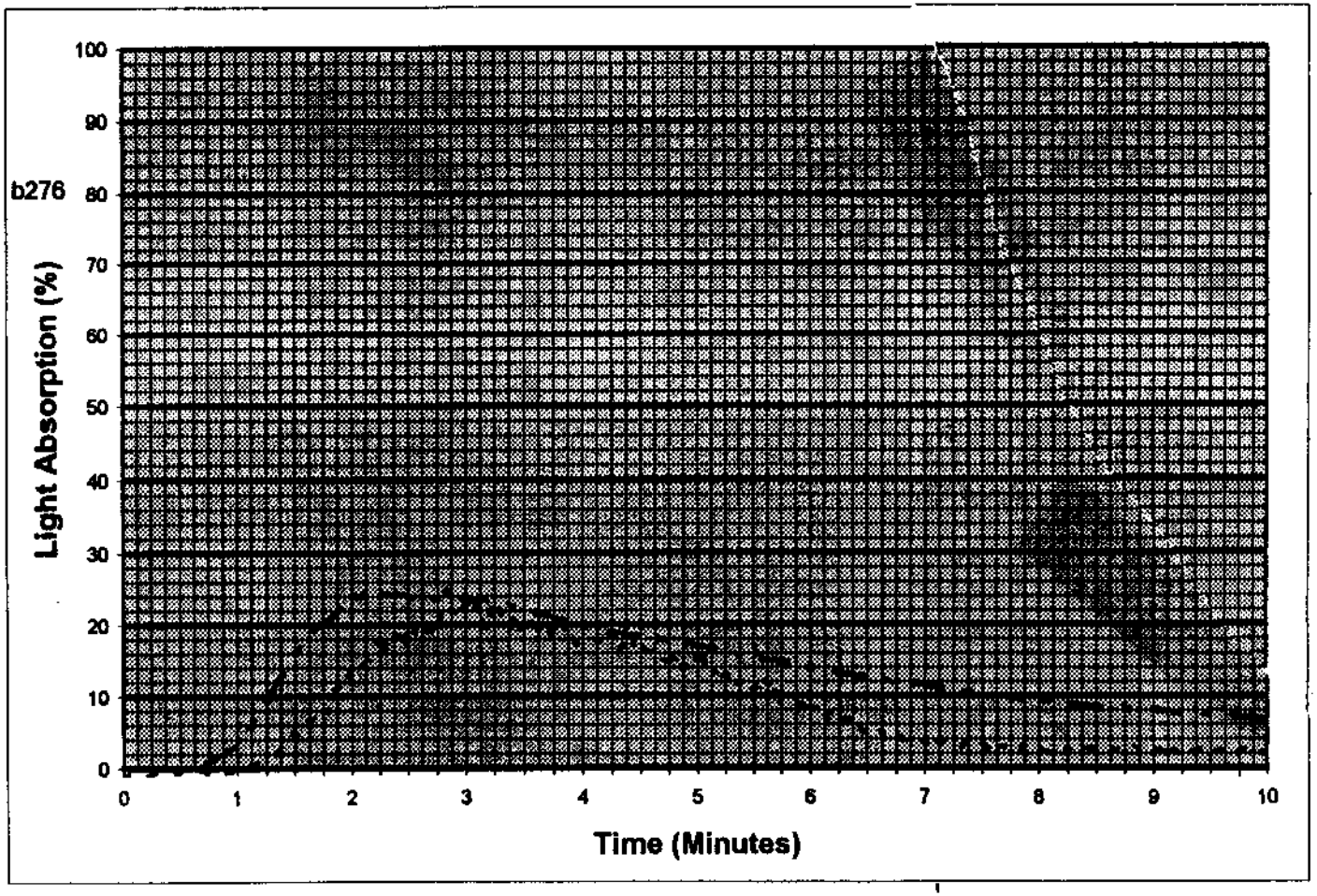


Figure 2

REPORT OF TEST

United States Testing Company, Inc.

TIME-TEMPERATURE CURVE OF EXPOSED THERMOCOUPLE

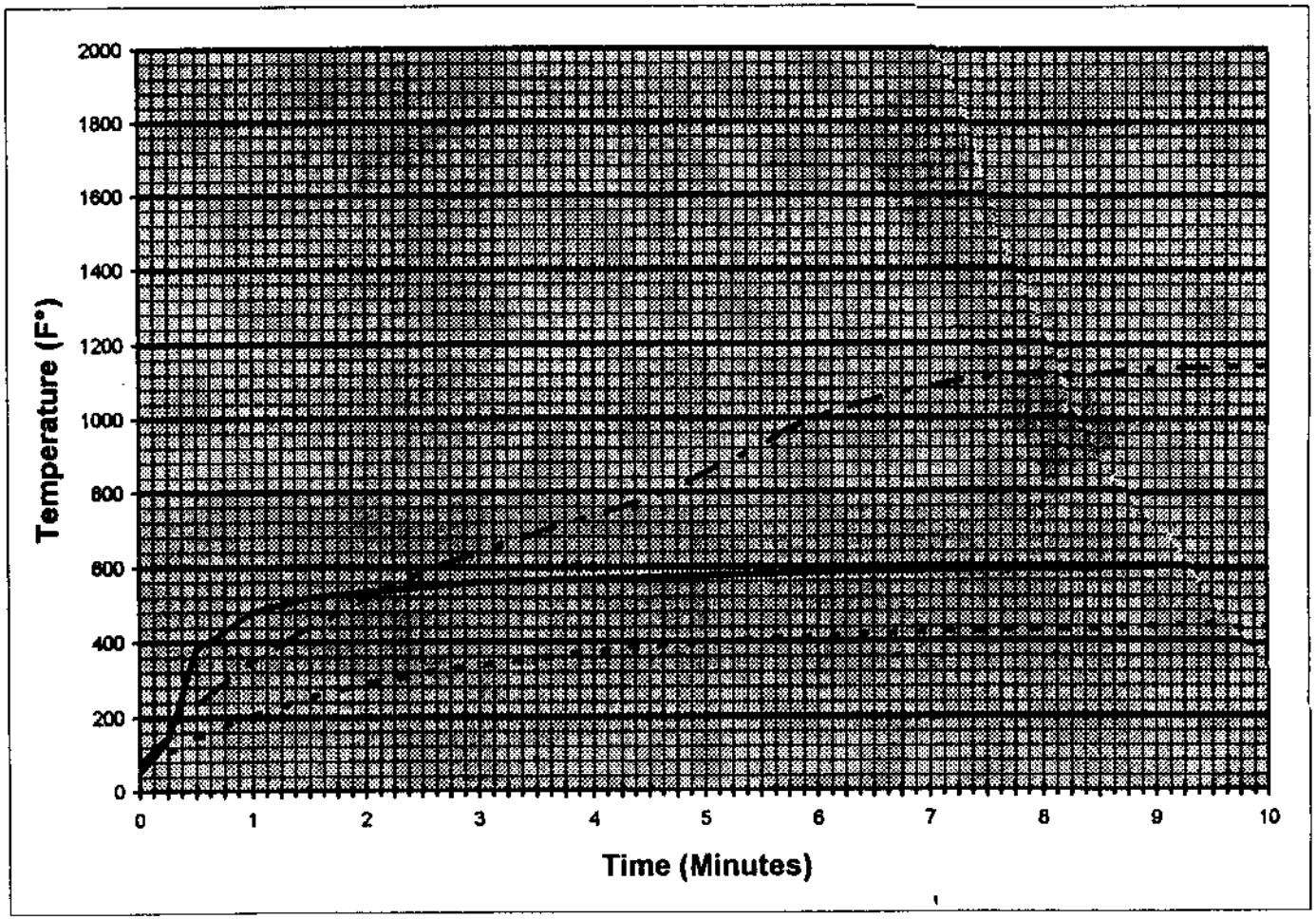
SAMPLE Sanigrid Tee Samples

RED OAK

TEST NO. 117144

TEST DATE February 08,1996

I.C. Board



SGS U.S. Testing Company Inc.

Figure 3