

# Universal Laboratory, Inc.

(972) 272-7337  
Fax (972) 272-7790

1726 Commerce St  
Garland, Texas 75040-6710

## TEST REPORT

Date: 5-04-06

Test No.: 34366-C  
Page 1 of 4

For: Kewaunee Scientific Corporation  
2700 W. Front Street  
Statesville, NC 28677

Requested By:  
David Foote

Background: Kewaunee submitted (2) Wood Panel "A" samples for testing to SEFA, paragraphs 8.1, 8.2, 8.3, and 8.5. Samples received from customer supplied carrier on 4-18-06 in good condition. The following information is being provided.

Order Entry Log Date: 4-18-06 Log # 333190  
(2) Wood Panels "A" Samples

Test Methods: SEFA 8/1998 Paragraph 8.1 Chemical Spot Test on 12 x 12 Samples  
SEFA 8/1998 Paragraph 8.2 Hot Water Test on 3 x 5 Sample  
SEFA 8/1998 Paragraph 8.3 Impact Test On 3 x 5 Sample  
SEFA 8/1998 Paragraph 8.4 Paint Adhesion on Steel  
SEFA 8/1998 Paragraph 8.5 Paint Hardness on Steel

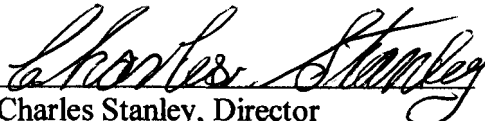
Procedure: Chemical Spot Check Test SEFA 8.1-1998, Method A & B  
Test Method A: Volatile chemicals tested by placing a saturated cotton ball with the reagent in the mouth of a 1-oz. bottle and inverting the bottle on the surface of the panel.  
Test Method B: Five drops of non-volatile chemicals of each reagent placed on sample, covered with watch glass, convex side down. Each Chemical was left for one hour, then washed off with water, cleaned with detergent and naphtha and rinsed with deionized water, dried and evaluated after 24 hours at  $73 \pm 3^\circ\text{F}$  and  $50 \pm 5\%$  relative humidity.

RATING SCALE: Level 0 - No Detectable Change  
Level 1 - Slight Change in Color or Gloss  
Level 2 - Slight Surface Etching or Severe Staining  
Level 3 - Pitting, Cratering, Swelling, Erosion of Coating.  
Obvious & Significant Deterioration.

Test Results: The test results are provided in the attached data report

Note: "We certify that all portions of each test performed were under continuous, direct supervision of this Laboratory."

CONCLUSION: The Wood Panels "A" Meet The SEFA 8 Standards Requirements Per Paragraphs Tested In This Report.

  
Charles Stanley, Director

# Universal Laboratory, Inc.

(972) 272-7337  
Fax (972) 272-7790

## TEST REPORT

1726 Commerce St  
Garland, Texas 75040-6710

Date: 5-04-06

Test No.: 34366-C

For: Kewaunee Scientific Corporation

Page 2 of 4

Test Results: SAMPLE ID: Wood Panels "A"

### Chemical Spot Tests:

<u>#</u>	<u>CHEMICALS</u>	<u>Test Method</u>	<u>Time In Minutes</u>	<u>Rating Scale</u>
1	Amyl Acetate	A	60	Level 0
2	Ethyl Acetate	A	60	Level 0
3	Acetic Acid 98%	B	60	Level 0
4	Acetone	A	60	Level 0
5	Acid Dichromate 5%	B	60	Level 0
6	Butyl Alcohol	A	60	Level 0
7	Ethyl Alcohol	A	60	Level 0
8	Methyl Alcohol	A	60	Level 0
9	Ammonium Hydroxide, 28%	B	60	Level 0
10	Benzene	A	60	Level 0
11	Carbon Tetrachloride	A	60	Level 0
12	Chloroform	A	60	Level 0
13	Chromic Acid 60%	B	60	Level 0
14	Cresol	A	60	Level 0
15	Dichlor Acetic Acid	A	60	Level 0
16	Dimethylformamide	A	60	Level 0
17	Dioxane	A	60	Level 0
18	Ethyl Ether	A	60	Level 0
19	Formaldehyde 37%	A	60	Level 0
20	Formic Acid 90%	B	60	Level 0
21	Furfural	A	60	Level 0
22	Gasoline	A	60	Level 0
23	Hydrochloric Acid, 37%	B	60	Level 0
24	Hydrofluoric Acid 48%	B	60	Level 0
25	Hydrogen Peroxide 28%	B	60	Level 0
26	Tincture of Iodine	B	60	Level 1
27	Methyl Ethyl Ketone	A	60	Level 0
28	Methylene Chloride	A	60	Level 1
29	Mono Chlorobenzene	A	60	Level 0
30	Napthalene	A	60	Level 0
31	Nitric Acid, 20%	B	60	Level 1
32	Nitric Acid, 30%	B	60	Level 1

# Universal Laboratory, Inc.

(972) 272-7337  
Fax (972) 272-7790

1726 Commerce St  
Garland, Texas 75040-6710

## TEST REPORT

Date: 5-04-06

Test No.: 34366-C

For: Kewaunee Scientific Corporation

Page 3 of 4

Test Results Continued: Sample ID: Wood Panels "A"

<u>#</u>	<u>CHEMICALS</u>	<u>Test Method</u>	<u>Time In Minutes</u>	<u>Rating Scale</u>
33	Nitric Acid, 70%	B	60	Level 3
34	Phenol 90%	A	60	Level 1
35	Phosphoric Acid, 85%	B	60	Level 1
36	Silver Nitrate, Saturated	B	60	Level 0
37	Sodium Hydroxide, 10%	B	60	Level 0
38	Sodium Hydroxide, 20%	B	60	Level 1
39	Sodium Hydroxide, 40%	B	60	Level 2
40	Sodium Hydroxide, Flake	B	60	Level 0
41	Sodium Sulfide, Saturated	B	60	Level 1
42	Sulfuric Acid, 25%	B	60	Level 1
43	Sulfuric Acid, 85%	B	60	Level 1
44	Sulfuric Acid, 96%	B	60	Level 3
45	Sulfuric Acid 85%, and Nitric Acid 70%, equal parts	B	60	Level 1
46	Toluene	A	60	Level 0
47	Trichlorethylene	A	60	Level 0
48	Xylene	A	60	Level 0
49	Zinc Chloride, Saturated	B	60	Level 0

### 8.2 Hot Water Test: 3" x 5" Wood "A" Samples

Hot water at 190° was allowed to trickle (a steady stream) at a rate of 8 ounces per minute on the finished surface at an angle of 45-degrees for a period of five minutes. After the sample was cooled and wiped dry, the finish of the samples was inspected for visible effects from the hot water test. None were found.

**COMPLIES**

### 8.3 Impact Test: 3" x 5" Wood "A" Samples

A one-pound 2" diameter ball was dropped from a distance of 12" onto a flat horizontal surface of the panel. Inspection after impact showed no cracks or checks in the finish due to the impact.

**COMPLIES**

# Universal Laboratory, Inc.

(972) 272-7337  
Fax (972) 272-7790

1726 Commerce St  
Garland, Texas 75040-6710

## TEST REPORT

Date: 5-04-06

Test No.: 34366-C

For: Kewaunee Scientific Corporation

Page 4 of 4

Test Results Continued: Sample ID: Wood "A" Samples

8.4 Paint Adhesion on Steel: : Wood "A" Sample  
The Panel was scored with a razor blade to intersect at right angles forming  
Forming squares, deep enough to go through coating.  
Examined under 100-foot candles of illumination to determine if finish was  
intact. The panel finish was in compliance. **COMPLIES**

8.5 Paint Hardness on Steel: 3" x 5" Wood "A" Sample  
Pencils of increasing hardness was pushed across the paint film in a  
Chisel like manner until one was found that scratched the film.  
The sample received a rating of H5 hardness **COMPLIES**