

RESISTANCE TO SYNTHETIC PERSPIRATION STAINING

Application

This method is used to determine the resistance of finished surfaces to perspiration staining.

Apparatus Required

Analytical Balance

Precision +/- 0.001 g

Graduated Container

1000 mL

Watch Glasses

Diameter, 65 mm minimum

Materials Required

Sodium Chloride, Reagent grade

Disodium hydrogen orthophosphate, anhydrous, Reagent grade

Lactic Acid, Reagent grade, 87%

Ammonium Carbonate, Reagent grade

Distilled or Deionized Water

20 micromhos/cm at 25 °C maximum conductivity (ASTM D 1125)

Gauze Pads, 50 x 50 mm

Required Solutions

Acid Perspiration Solution

Sodium Chloride	10 g
Lactic Acid	1 g
Disodium hydrogen orthophosphate	1 g
Water	1 liter

Date	Action	Revisions
2002 11 22	Activated	A. Wedepohl

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Documents

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Alkaline Perspiration Solution

Sodium Chloride	10 g
Ammonium Carbonate	4 g
Disodium hydrogen orthophosphate	1 g
Water	1 liter

Conditioning and Test Conditions

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5% relative humidity for not less than 24 hours prior to testing and tested under the same conditions unless otherwise specified.

Procedure

1. Saturate a gauze pad with the test solution and place it on the finished surface. Cover the gauze pad with a watch glass to reduce evaporation.
2. Allow the gauze pad and test solution to remain on the surface for 8 hours, replacing the gauze pad with a freshly saturated pad every 2 hours.
3. Remove the gauze pad and carefully wipe off the excess test solution with a lint-free cloth.
4. Allow the sample to air dry prior to evaluation.

Evaluation

1. Determine any color change in accordance with ISO 105-A02/AATCC Evaluation Procedure 1.
2. Compare the gloss and finish of the tested and untreated areas of the test specimen.
3. Rub test area with the curved end of a paperclip to detect softening of the finish.
4. Report any blistering, softening, peeling, bubbling, or loss of adhesion.

Chemicals, materials, parts, and equipment referenced in this document must be used and handled properly. Each party is responsible for determining proper use and handling in its facilities.