Artificial Eccrine Perspiration

The Artificial Eccrine Perspiration is the closest mimic to true human eccrine sweat. It consists of nineteen amino acids, the seven most abundant minerals, and the four most abundant metabolites. All concentrations closely match experimentally determined values for adult human eccrine sweat. It is the only formula that can satisfy all test challenges and is thus the most complete formulation available.

Used for testing bankcards, textiles, jewelry, leather, coating, fingerprint identification chemistry and many others.

pH value 4.5 or Custom pH

Shelf life two years at room temperature (stabilized), one year while kept frozen (non-stabilized)

Condition ready-to-use solution

Quantity 5 mL, 200 mL, 950 mL
Artificial Apocrine Perspiration

Apocrine sweat is secreted by apocrine glands located in the areas of the body with an abundance of hair follicles such as the scalp, armpits and groins. Apocrine sweat is initially sterile and odorless but when acted upon by bacteria it forms odorous compounds. Artificial Apocrine Perspiration was developed to mimic the composition of human apocrine sweat and contains several volatile fatty acids that are responsible for the unpleasant odor associated with it.

Used for testing that requires the presence of malodor. It also could be used to culture bacteria that are commonly present on human skin.

- **Shelf-life**: one year while kept frozen
- **Condition**: ready-to-use solution, not stabilized
- **Quantity**: 200 mL
- **Part number**: 1700-0556

Industry Specific Artificial Perspiration

In addition to the artificial eccrine and apocrine perspiration the following industry-specific artificial perspiration formulations are available:

**Artificial Perspiration for Testing the Release of Nickel**

*Used to* test the release of Nickel from all post assemblies which are inserted into pierced ears and other pierced parts of the human body, and for articles intended to come into direct and prolonged contact with the skin (excl. spectacle frames and sunglasses).

- **According to**: BS EN 1811:2011
- **pH value**: 6.5 or Custom pH
- **Shelf-life**: two years at room temperature (stabilized), one year while kept frozen (non-stabilized)
- **Condition**: ready-to-use solution
- **Quantity**: 200 mL, 19.8 L
Artificial Perspiration for Testing the Corrosion Resistance for Gold Alloy

*Used to* determine corrosion (tarnishing, oxidation and surface penetration) resistance for gold alloy coverings on watch cases and accessories

According to ISO 3160

- **pH value**: 4.7 or Custom pH
- **Shelf-life**: two years at room temperature (stabilized), one year while kept frozen (non-stabilized)
- **Condition**: ready-to-use solution
- **Quantity**: 200 mL, 950 mL

Artificial Perspiration for Testing Colorfastness of Articles for Common Use

*Used to* determine the colorfastness of articles for common use to perspiration. This test establishes whether coloring materials can migrate from the articles of daily use to the skin.

According to DIN 53160-2: 2010-10

- **pH value**: 6.5
- **Shelf life**: two years at room temperature
- **Condition**: ready-to-use solution
- **Quantity**: 200 mL
The artificial perspiration is available in a stabilized (P/N 1700-0530) and non-stabilized version (P/N 1700-0529).

**Artificial Perspiration for Testing the Colorfastness of Fabric to Perspiration or to a Combination of Light and Perspiration**

*Used to determine the colorfastness of textiles to the effects of acid perspiration, to determine colorfastness to a combination of light and perspiration, or for testing of dyestuffs as applied to textiles.*

According to AATCC Test Method 15 and Test Method 125

- **pH value**: 4.3 or Custom pH
- **Shelf-life**: two years at room temperature (stabilized), one year while kept frozen (non-stabilized)
- **Condition**: ready-to-use solution
- **Quantity**: 200 mL, 4 x 950 mL

*Here you can find exact specifications and part numbers for artificial perspiration for testing the colorfastness of fabric to perspiration or to a combination of light and perspiration.*

**Artificial Perspiration for Abrasion Resistance of Markings and Letterings Caused by Rubbing of Fingers and Hands**

*Used to determine the resistance of markings and letterings on flat or curved surfaces against abrasion (manually operating actuators, keyboards) or to determine resistance against fluid contamination as it may occur under normal use.*

According to DIN EN 60068-2-70 & IEC 60068-2-70

- **Shelf-life**: two years at room temperature (non-stabilized), one year while kept frozen (stabilized)
- **Condition**: ready-to-use solution
Quantity 200 mL

The artificial perspiration is available in a stabilized (P/N 1700-0543) and non-stabilized version (P/N 1700-0542).

### Artificial Perspiration for Testing Builders Hardware and Finishes

**Used to** test finishes on various base materials

- **According to**: ANSI-BHMA A156.189
- **pH value**: Custom pH (2.0 - 9.0)
- **Shelf-life**: one year while kept frozen
- **Condition**: ready-to-use solution, not stabilized
- **Quantity**: 200 mL
- **Part Number**: 1700-0512

### Artificial Perspiration for Testing the Colorfastness to Perspiration for Leather

**Used to** determine the color fastness to perspiration of all kinds of leather at all stages of processing.

- **According to**: ISO 11641 or ASTM D2322-00
- **pH value**: 8.0 or Custom pH

Here you can find exact specifications and part numbers for artificial perspiration for testing the colorfastness to perspiration for leather.
Artificial Perspiration for Testing Spectacle Frames or Other Products of Ophthalmic Optics

**Used to** determine the resistance to perspiration of unglazed spectacle frames designed for use with all prescription lenses and to rimless mounts, semi-rimless mounts and folding spectacle frames. Also applicable to frames made from natural organic materials.

According to ISO 12870

pH value Custom pH

Shelf-life two years at room temperature (stabilized), one year while kept frozen (non-stabilized)

Condition ready-to-use solution

Quantity 200 mL

Here you can find exact specifications and part numbers for artificial perspiration for testing spectacle frames or other products of ophthalmic optics.

Artificial Perspiration for Testing the Colorfastness of Textiles to Either a Combination of Light and Perspiration or just Perspiration

**Used for** all kinds of textiles and textiles in all forms

The textiles are wetted with either the acidic or the alkaline solution.

According to ISO 105-B07 and ISO 105-E04

pH value 5.5 (acidic solution), 8.0 (alkaline solution) or Custom pH

Shelf-life two years at room temperature (stabilized), one year while kept frozen (non-stabilized)

Condition ready-to-use solution

Quantity 200 mL
Here you can find exact specifications and part numbers for artificial perspiration for testing the colorfastness of textiles to either a combination of light and perspiration or just perspiration.

Artificial Perspiration for Testing the Effects of Fluids on Automotive Trim Materials and Components

**Used for** testing the chemical resistance of automotive trim materials and components. The surface wetted with either the acidic or the alkaline solution.

According to GM Worldwide Engineering Standards (GMW 14334)

**Shelf-life** stored frozen for long term storage (1 year)

**Condition** ready-to-use solution

**Quantity** 200 mL

**Versions:**
- acidic sweat (P/N 1700-0533)
- alkaline sweat (P/N 1700-0534)

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Brochures

Test Solutions Catalog.pdf (pdf | 751.7 KB)
Please find detailed information about the test solutions on the special designed Pickering website.