Artificial Perspiration

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

Here you can find the exact specifications and article numbers for eccrine perspiration.

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

Here you can find exact specifications and part numbers for artificial perspiration for testing the release of nickel.

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

Here you can find exact specifications and part numbers for artificial perspiration for testing the corrosion resistance for gold alloy.

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.

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.

Here you can find exact specifications and part numbers for artificial perspiration for testing the colorfastness to perspiration for leather.

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

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.

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

Used for testing the chemical resistance of automotove 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)

Please contact us

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Brochures

Test_Solutions_Catalog.pdf (pdf | 3 MB)

Special Website

Please find detailed information about the test solutions on the special designed Pickering website.