ANALYT MESSTECHNIK



INSTRUCTIONS FOR USE

SKC PERMEA-TEC Pads for Phenols

How to find out how long a glove protects against phenols such as bisphenol A and the chlorophenols in real use: wear PERMEA-TEC pads under the glove, develop them every hour and look for red.

AMTC-IN-0030

About this document

A glove that passes a laboratory permeation test can still let chemicals through sooner at work, where it is flexed, stretched and rubbed. SKC PERMEA-TEC Pads for Phenols show what happens in real use. The pads are worn under the glove you want to assess, taken out every hour and sprayed with a developing solution. If phenols have come through the glove, the pad turns red. Checking them hour by hour determines a user-safe time period for that glove. SKC also calls the pads PERMEA-TEC sensors.

Product and supplied items (p. 6) explains how the test works and what you need. Procedure (p. 8) gives the steps and After use and sample handling (p. 9) shows how to read the pads. Specifications (p. 10) lists the smallest amounts the pads detect and Ordering information (p. 11) the products you need.

Keep these instructions for the lifetime of the product. The current revision is on the product page at analyt-mtc.com.

The product

Order code	769-3007, pack of 20 pads

How these instructions mark information

⚠ CAUTION

A hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

Practices not related to personal injury — damage to the product, the process or the sample.

Document information

Title	SKC PERMEA-TEC Pads for Phenols — Instructions for use
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Revision history

Rev.	Date	Change
2	October 2026	Quality programme: new document type, number and identity pages.
1	October 2026	First issue.

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CHAPTER 1

Safety

Read the safety messages in this chapter before you test a glove.

Intended use

SKC PERMEA-TEC Pads for Phenols show, on the job, whether phenols have come through a glove. You wear them under the glove you want to assess, take them off every hour and spray them with a developing solution to determine a user-safe time period for that glove.

Safety messages

The same messages also appear where they apply, before the step they concern.

NOTICE

The pads have a limited shelf life. Do not use a pack past the date printed on it. Past that date the pads may not change colour reliably, so the result is then invalid.

⚠ CAUTION

Pads stored next to food can contaminate it, and eating contaminated food can harm you. Keep the pads away from food.

CHAPTER 2

Product and supplied items

The worker wears two gloves with the pads between them. Every hour the pads are developed and checked for red.

How the test works

SKC recommends double gloving for this test. The glove the worker normally wears stays on as the inner glove and carries the pads on its outside. The glove you want to assess is pulled on over it. Phenol that permeates the outer glove reaches a pad. One pad goes on the thumb, one on the middle finger and one on the palm, the parts of a glove with the most contact and wear.

What you need

Item	Order code	Used for
PERMEA-TEC Pads for Phenols	769-3007	Three pads for each hour of testing
Cleaning/Developing Solution for Phenols, 22 oz	769-1067	Developing the pads
The glove normally worn	—	Inner glove, carries the pads
The glove to be assessed	—	Outer glove

CHAPTER 3

Before use

Before you start

NOTICE

The pads have a limited shelf life. Do not use a pack past the date printed on it. Past that date the pads may not change colour reliably, so the result is then invalid.

Shelf life	Limited. The expiry date is printed on the packaging.
Storage	At ambient temperature
Stability	Stable at ambient conditions
Known interferents	None

⚠ CAUTION

Pads stored next to food can contaminate it, and eating contaminated food can harm you. Keep the pads away from food.

CHAPTER 4

Procedure

Run the test

1. Fix one pad each to the thumb, the middle finger and the palm, on the outside of the glove the worker is wearing.
2. Pull the glove to be assessed on over the first glove.
3. Carry on with the normal task.
4. After **one hour**, take off the outer glove.
5. Remove the three pads underneath it.
6. Develop each pad: spray it **twice** with Cleaning/Developing Solution 769-1067.
7. Look at the pads. A pad that has turned **red** shows that phenols have broken through the outer glove (see Reading the pads (p. 9)).
8. If no pad is red, fix three fresh pads to the inner glove.
9. Put the same outer glove back on.
10. Work for another hour.
11. Repeat steps 4 to 7.
12. Continue hour by hour until a pad turns red.

CHAPTER 5

After use and sample handling

Reading the pads

A developed pad that keeps its original colour shows no breakthrough. A red pad shows that phenols have come through the outer glove. No interfering substances are known for these pads.

SKC also publishes a SWYPE Semi-Quantitative Color Reactions chart for its surface and dermal products. Detection limits are in Specifications (p. 10).

Disposal

Dispose of used pads and their packaging under local regulations.

CHAPTER 6

Specifications

The lowest amount of each phenol listed below that the pad detects is 2 µg.

Lowest detection limits

Table 6-1 Lowest detection limit (LDL) per pad

Chemical	LDL (µg)
Bisphenol A	2
2,4,6-Trichlorophenol	2
2-Chlorophenol	2

CHAPTER 7

Ordering information

Order from Analyt-MTC with the order codes.

Table 7-1 Pads and related products

Description	Order code
PERMEA-TEC Pads for Phenols, pack of 20	769-3007
Cleaning/Developing Solution for Phenols, 22 oz	769-1067
D-TAM Skin Cleanser, personal size, 8 oz, for removing phenol from the skin	769-5011

CHAPTER 8

Service and contacts

SKC PERMEA-TEC Pads for Phenols are made by SKC. Analyt-MTC is your contact for them.

Ordering and support

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Ordering and questions

Order PERMEA-TEC Pads, the Cleaning/Developing Solution and D-TAM Skin Cleanser from Analyt-MTC with the catalogue numbers in these instructions. Ask Analyt-MTC if you have questions about these instructions or the products. Warranty and returns follow the terms of Analyt-MTC.

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