

INSTRUCTIONS FOR USE

SKC PERMEA-TEC Pads for Aromatic Amines

How to find out how long a glove protects against aromatic amines such as MOCA and MDA in real use: wear PERMEA-TEC pads under the glove, develop them every hour and read the colour.

AMTC-IN-0028

About this document

SKC PERMEA-TEC Pads for Aromatic Amines show whether aromatic amines break through a glove. They are worn under the glove you want to assess, taken out every hour and sprayed with a developing solution. A colour change indicates breakthrough. Repeated hour by hour, the test is used to determine a user-safe time period for a particular glove. SKC also calls the pads PERMEA-TEC sensors.

Product and supplied items (p. 5) explains how the test works and what you need. Procedure (p. 7) gives the steps and After use and sample handling (p. 8) shows how to read the pads. Specifications (p. 9) lists the smallest amounts the pads detect and Ordering information (p. 10) 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	769-3001, 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

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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 Aromatic Amines show, on the job, whether aromatic amines break through a glove. You wear them under the glove you want to assess, take them out every hour and spray them with a developing solution; repeated hour by hour, the test gives a user-safe wearing time 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.

NOTICE

MDI also colours the pad. MDI is listed as a known interferent, so a colour change can have another cause where MDI is present. Mistaken for breakthrough, such a colour change gives a false positive, 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 and drink.

CHAPTER 2

Product and supplied items

Wear two gloves, with the pads between them. Every hour, take the outer glove off, develop the pads and look for a colour change.

How the test works

SKC recommends double gloving to determine a user-safe time period for a particular glove. The glove the worker currently wears is the inner glove, and the pads are fixed to the outside of it. The glove you want to assess goes on top.

The pads sit on the thumb, the middle finger and the palm.

What you need

Item	Order code	Used for
PERMEA-TEC Pads for Aromatic Amines	769-3001	Three pads for each hour of testing
Cleaning/Developing Solution for Aromatic Amines, 22 oz	769-1061	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.

NOTICE

MDI also colours the pad. MDI is listed as a known interferent, so a colour change can have another cause where MDI is present. Mistaken for breakthrough, such a colour change gives a false positive, 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 interferent	MDI

⚠ CAUTION

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

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. Put the glove to be assessed on over the first glove.
3. After **1 hour**, take off the outer glove.
4. Remove the three pads underneath it.
5. Develop each pad: spray it **twice** with Cleaning/Developing Solution 769-1061.

   NOTICE

   MDI also colours the pad. MDI is listed as a known interferent, so a colour change can have another cause where MDI is present. Mistaken for breakthrough, such a colour change gives a false positive, so the result is then invalid.
6. Look at the pads. A colour change is a positive indication of breakthrough (see Reading the pads (p. 8)).
7. If no breakthrough is indicated, fix fresh pads to the inner glove.
8. Put the outer glove back on.
9. Keep wearing it for another hour.
10. Repeat steps 3 to 6.
11. Repeat hour by hour to determine a user-safe time period for the glove.

CHAPTER 5

After use and sample handling

Reading the pads

A colour change on the developed pad is a positive indication of breakthrough. Aromatic amines produce these colours:

Chemical	Colour
MOCA and MDA	Red-orange
Ethacure	Blue

SKC also publishes a SWYPE Semi-Quantitative Color Reactions chart for its surface and dermal products.

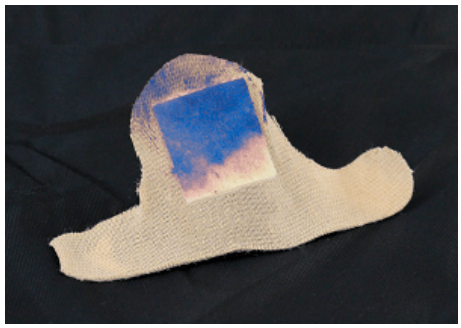


Figure 5-1. A developed pad with a colour change. Example only: the colour depends on the chemical, see the table.

The amounts each pad can detect are listed in Specifications (p. 9).

Disposal

Dispose of used pads and their packaging under local regulations.

CHAPTER 6

Specifications

The lowest detection limit (LDL) depends on the chemical: 2 µg for MOCA, 3 µg for aniline and 15 µg for MDA.

Lowest detection limits

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

Chemical	LDL (µg)
4,4'-Methylene-bis(2-chloroaniline) [MOCA]	2
Aniline	3
4,4'-Methylenedianiline [MDA]	15

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 Aromatic Amines, pack of 20	769-3001
Cleaning/Developing Solution for Aromatic Amines, 22 oz	769-1061
D-TAM Skin Cleanser, personal size, 8 oz, for removing aromatic amines from the skin	769-5011

CHAPTER 8

Service and contacts

SKC PERMEA-TEC Pads for Aromatic Amines 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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