

INSTRUCTIONS FOR USE

SKC PERMEA-TEC Pads for Aliphatic Amines

How to find out how long a glove protects against aliphatic amines such as triethylamine in real use: wear PERMEA-TEC pads under the glove, check them every hour and look for a fuchsia colour.

AMTC-IN-0026

About this document

Laboratory permeation data do not tell you how long a glove protects in real work, where it is flexed, stretched and rubbed. SKC PERMEA-TEC Pads for Aliphatic Amines answer that question on the job. The pads are worn under the glove you want to assess and checked every hour. If aliphatic amines have come through the glove, the pad turns fuchsia. 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

Product	Order code	Pack
SKC PERMEA-TEC Pads for Aliphatic Amines	769-3005	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.

Note

Information that helps understanding; never a hazard.

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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Contents

1 **Safety** 5
- Intended use 5
- Safety messages 5

2 **Product and supplied items** 6
- How the test works 6
- What you need 6

3 **Before use** 7
- Before you start 7
- Storage and shelf life 7

4 **Procedure** 8
- Run the test 8

5 **After use and sample handling** 9
- Reading the pads 9
- Disposal 9

6 **Specifications** 10
- Lowest detection limits 10

7 **Ordering information** 11

8 **Service and contacts** 12

CHAPTER 1

Safety

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

Intended use

SKC PERMEA-TEC Pads for Aliphatic Amines show, on the job, whether aliphatic amines have come through a glove. You wear them under the glove you want to assess and check them every hour 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 and drink.

CHAPTER 2

Product and supplied items

Wear two gloves, with the pads between them. Every hour, take the outer glove off and look at the pads. The test ends at the first fuchsia pad.

How the test works

SKC recommends double gloving for this test. The worker keeps the glove they normally wear as the inner glove, and the pads are fixed to the outside of it. The glove you want to assess goes on top. Anything that permeates the outer glove reaches a pad, while the inner glove keeps it off the skin.

The pads sit on the thumb, the middle finger and the palm. These are the areas of a glove with the most contact and wear. The pads for aliphatic amines show the colour by themselves: no developing solution is needed.

What you need

Item	Order code	Used for
PERMEA-TEC Pads for Aliphatic Amines	769-3005	Three pads for each hour of testing
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.

Storage and shelf life

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 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. Carry on with the normal task.
4. After **1 hour**, take off the outer glove.
5. Remove the three pads underneath it.
6. Look at the pads. A change to **fuchsia** means that aliphatic amines have broken through the outer glove (see Reading the pads (p. 9)).
7. If no pad has changed colour, fix three fresh pads to the inner glove.
8. Put the same outer glove back on.
9. Work for another hour.
10. Repeat steps 4 to 6.
11. Continue hour by hour to determine a user-safe time period for the glove.

CHAPTER 5

After use and sample handling

Reading the pads

A pad that keeps its original colour shows no breakthrough. A pad that has turned fuchsia shows breakthrough of aliphatic amines.

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

> **Note**
> **No known interferents.** SKC lists no other substance that turns these pads fuchsia.

The amounts each pad can detect are listed in Specifications (p. 10).

Disposal

Dispose of used pads and their packaging under local regulations.

CHAPTER 6

Specifications

The pads respond to 1 to 6 micrograms of aliphatic amine, depending on the chemical. Below these amounts a pad stays unchanged even if some chemical has reached it.

Lowest detection limits

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

Chemical	LDL (µg)
Dibutylamine	5
Dicyclohexylamine	1
1,4-Diazabicyclo[2.2.2]octane (TED)	1
Triethylamine	6
Triethanolamine	4
Diethanolamine	4
4-Ethylmorpholine	3
n,n-Dimethylaminopropylamine	3

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 Aliphatic Amines, pack of 20	769-3005
D-TAM Skin Cleanser, personal size, 8 oz	769-5011

CHAPTER 8

Service and contacts

SKC PERMEA-TEC Pads for Aliphatic 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 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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