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PERMEA-TEC Sensor for Acid/Base

Cat. No. 769-3006

Operating Instructions

Limited shelf-life: Check expiration date on packaging.

The PERMEA-TEC Sensor colorimetric screening method determines the effectiveness of chemical-protective gloves and clothing under actual use conditions. CLI's microencapsulation detection indicator changes color, indicating permeation for many common acids and bases. Results enable professionals to select the gloves/clothing best suited for protection, acceptance, and cost-effectiveness.

PERMEA-TEC sensors are adhered to a worker's skin at points of greatest contact and abrasion before gloving or covering, observed for color change at time intervals, and sent to an accredited laboratory for analysis if desired.

Instructions for Use

To determine a user-safe time period for the particular glove, double gloving is recommended.

1. Affix PERMEA-TEC sensors to the thumb, middle finger, and palm on the outside of the glove currently being worn. Place the glove to be evaluated over the first glove.
2. After one hour, remove the outside glove and the underlying PERMEA-TEC sensors.

3. Evaluate the sensors for breakthrough. A positive indication of breakthrough results in a color change:
 - **An acid** will change from a neutral (orange) color to fuchsia/magenta at pH 3.
 - **A base** will change from a neutral (orange) color to blue at pH 9.5.
4. If no breakthrough is indicated, apply fresh PERMEA-TEC sensors and continue to wear the outside glove for another hour. Follow Steps 2 and 3 to determine if breakthrough has occurred.
5. Repeat Steps 3 and 4 to determine a user-safe time period for gloves.

Other PERMEA-TEC sensors are available for:

Aromatic Amines:	MDA, aniline, o-Toluidine, methylene-bis(2-chloroaniline) (MOCA)
Aromatic Isocyanates:	TDI, MDI
Aliphatic Amines:	N,N-dimethylcyclohexylamine, triethanolamine, diethanolamine, and triethylenediamine
Aliphatic Isocyanates:	HDI, HMDI
Phenols:	Bisphenol A
Solvents	

SKC Limited Warranty and Return Policy

SKC products are subject to the SKC Limited Warranty and Return Policy, which provides SKC's sole liability and the buyer's exclusive remedy. To view the complete SKC Limited Warranty and Return Policy, go to skcinc.com/warranty.