

# CHEMTEQ<sup>®</sup>

## Pyridine and Basic Vapors Filter Breakthrough Indicator (BTI LFF) (PN: 169-0000)

*Manual*



## 1. Application

The Breakthrough Indicator (PN: 169-0000) is qualitative (yes/no) colorimetric indicator for the exhaustion and end-of-service life of low-flow filters. The indicator is designed to provide real-time indication of the breakthrough of pyridine and basic vapors such as ammonia and aliphatic amines.

## 2. Specifications

### 2.1. Overall Specification

- |                              |  |
|------------------------------|--|
| a. Weight:                   | 4.4g (0.16oz)                            |
| b. Dimensions:               | 79mm (3.1in), diameter: 10mm (0.39in)    |
| c. Operating temperature:    | -20°C to 55°C (-4°F to 131°F)            |
| d. Operating humidity:       | 5% RH to 85%RH                           |
| e. Minimum detectable limit: | 1ppm-hr. at face velocity 30 cm/sec      |
| f. Color change:             | Yellow to green or blue                  |
| g. Storage temperature:      | 4°C to 25°C, (39°F to 77°F)              |
| h. Service life:             | 1 year                                   |
| i. Shelf life:               | 14 Months at 4°C to 25°C, (39°F to 77°F) |

### 2.2. Cross interferences

Acidic vapors in high concentrations impair the performance of the basic vapors breakthrough indicator.

## 3. Operating Instructions

- Ensure that packaging pouch is intact.
- Open packaging pouch by tearing off the top part from one of side notches.
- Remove one Breakthrough Indicator from packaging pouch, reseal pouch.
- Remove the 3/8" plug from filter's outlet lid.
- Remove the protective red plug to activate the breakthrough indicator.**
- Attach Breakthrough Indicator into filter outlet (closed pores foam adapter is required; please contact us for details).



Caution: Only hand-tie indicator into filter outlet

- Replace filter when the Breakthrough Indicator changes color green or blue.



Filter is good



Replace filter

**CHEMTEQ**<sup>®</sup>

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