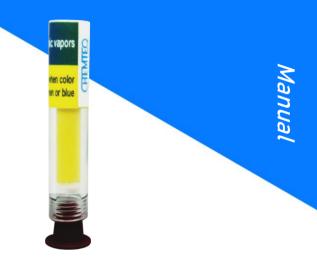
# CHEMTEQ

### Pyridine and Basic Vapors Filter Breakthrough Indicator (BTI LFF V) (PN: 1109)





#### 1. Application

The Breakthrough Indicator (PN: 1109) 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: 2.8g (0.1oz) b. Dimensions: 50mm (2.0in), diameter: 9.5mm (0.375in)
- c. Threading: M10 x 1mm
- d. Operating temperature: 4°C to 40°C (39°F to 104°F)
- e. Operating humidity: 5% RH to 85% RH
- f. Minimum detectable limit: 1ppm-hr. at face velocity 30 cm/sec
- g. Color change:
- h. Storage temperature: 4°C to 25°C, (39°F to 77°F)
- i. Service life: 1 year
- j. Shelf life: 14 Months at 4°C to 25°C, (39°F to 77°F)

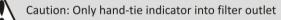
#### 2.2. Cross interferences

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

#### 3. Operating Instructions

Yellow to areen or blue

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



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



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