

**Phenol and Acid Vapors
Filter Breakthrough Indicator
(BTI LFF)
(PN: 129-0000)**



Manual



1. Application

The Phenol & Acids Breakthrough Indicator (BTI LFF) (PN: 129-0000) is qualitative (yes/no) colorimetric indicator for the saturation and end-of-service life of filters. The indicator is designed to provide real-time indication of the breakthrough of phenol and acid vapors.

2. Specifications

- 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: Acids : 4ppm•min, phenol 10ppm•hr at 30 cm/sec face velocity
- f. Color change: Yellow ● to orange ● to dark red ●
- g. Storage temperature: 4°C to 25°C, (39°F to 77°F)
- h. Shelf life: 14 months at 4°C to 25°C, (39°F to 77°F)
- i. Service life: 1 year

Cross interferences: Basic vapors in high concentrations impair the performance of the acid breakthrough indicator. No other interferences are known.

3. Operating Instructions

- a. Ensure that packaging pouch is intact.
- b. Open packaging pouch by tearing off the top part from one of side notches.
- c. Remove the Breakthrough Indicator from the packaging pouch and reseal Pouch.
- d. Remove the protective red plug to activate the breakthrough indicator.
- e. Attach Breakthrough Indicator into filter outlet (close pore foam adapter is required; please contact us for details).
- f. Replace filter when the Breakthrough Indicator changes color to orange or dark red.

