



Ammonia  
Breakthrough Indicator  
For Carbon Absorbers  
NH<sub>3</sub> BTI 3  
(PN: 433)

*Manual*



### 1. Application

The Ammonia BTI 3 (PN: 433) is qualitative (yes/no) colorimetric indicator for the end-of-service life of carbon absorbers and filters. It is designed to provide real-time indication of the breakthrough of ammonia vapor.

### 2. Specifications

- a. Weight: 204.5g (7.2oz)
- b. Dimensions: 11.43cm (4.5in), diameter 7.62cm (3.0in)
- c. Inlet dimensions: 2.5" MNPT
- d. Operating temperature: -20°C to 65°C (-4°F to 149°F)
- e. Operating humidity: 5% RH to 90%RH
- f. Minimum detectable limit: 10ppm-hr at 30 cm/sec face velocity
- g. Color change: Light blue to purple
- h. Storage temperature: 4°C to 25°C, (39°F to 77°F)
- i. Shelf life: 2 years at 4°C to 25°C, (39°F to 77°F)
- j. Service life: 18 months
- k. Light effect: None

Cross interferences: No 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.
- d. Remove the 2.5" threaded plug from the outlet lid of carbon absorber.
- e. Remove the protective red plug to activate the breakthrough indicator.
- f. Thread the Breakthrough Indicator into the 2.5" threaded carbon absorber outlet lid.

 **Caution: Only hand tighten indicator into carbon absorber**

- g. Replace carbon absorber when the Breakthrough Indicator changes color to purple.

**THE EXHAUSTED AMMONIA BTI 3 CAN BE REUSED BY REPLACING THE CONSUMED AMMONIA INDICATOR ASSEMBLY WITH A FRESH INDICATOR ASSEMBLY (PN: 433-1600) AND FRESH ACTIVATED CHARCOAL. PLEASE CONTACT US FOR DETAILS.**

