

**Ammonia  
Breakthrough Indicator  
For Carbon Absorbers  
NH<sub>3</sub> BTI 2  
(PN: 403)**



*Manual*



### 1. Application

The Ammonia BTI 2 (PN: 403) 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.

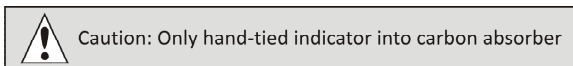
### 2. Specifications

a. Weight:	129.5g (4.6oz)
b. Dimensions:	11.43cm (4.5in), diameter 5.08cm (2.0in)
c. Inlet dimensions:	1.5" 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

- Ensure that packaging pouch is intact.
- Open packaging pouch by tearing off the top part from one of side notches.
- Remove the Breakthrough Indicator from the packaging pouch.
- Remove the 1.5" threaded plug from the carbon absorber outlet lid.
- Remove the protective red plug to activate the breakthrough indicator.
- Thread the Breakthrough Indicator into the 1.5" threaded carbon absorber outlet lid.



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



Unexposed



Exposed  
Change carbon absorber

