## **CHEMIEQ**

Nitrogen Dioxide Gas Breakthrough Indicator For Carbon Absorbers NO<sub>2</sub> BTI 3 (PN: 449)



Manua



## 1. Application

The Nitrogen Dioxide BTI 3 (PN: 449) 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 nitrogen dioxide gas.

## 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 55°C (-4°F to 131°F

e. Operating humidity: 5% RH to 90%RH

f. Minimum detectable limit: 0.5ppm-hr at 30 cm/sec face velocity

g. Color change: Off white to gray to black h. Storage temperature: 4°C to 25°C, (39°F to 77°F)

i. Shelf life: 14 months at 4°C to 25°C. (39°F to 77°F)

j. Service life: 14 months k. Light effect: None

Cross interferences: Other nitrogen oxides and strong oxidizers produce similar color. 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.
- d. Remove the 2.5" threaded plug from the carbon absorber outlet lid.
- 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.



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



