



# Sulfur Dioxide Breakthrough Indicator (BTI) For Carbon Absorbers

(PN: 179)

*Manual*



### 1. Application

The Sulfur Dioxide BTI (PN: 179) is qualitative (yes/no) colorimetric indicator for the saturation and end-of-service life of carbon absorbers. It is designed to provide real-time indication of the breakthrough of sulfur dioxide.

### 2. Specifications

- |                              |  |
|------------------------------|--|
| a. Weight:                   | 28g (1.0oz)                              |
| b. Dimensions:               | 89.9mm (3.5in), diameter 24.5mm (1.0in)  |
| c. Inlet dimensions:         | ¾" 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:             | Orange to red                            |
| 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                                |

Cross interferences: Basic vapors in high concentrations impair the performance of the acid breakthrough indicator. No other 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 ¾" threaded plug from the carbon absorber outlet lid.
- Remove the protective red plug to activate the breakthrough indicator.
- Screw in the Breakthrough Indicator into the ¾" threaded carbon absorber outlet lid.



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

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



**CHEMTEQ**

Chemteq, Inc., 600 West 24<sup>th</sup> Street, Suite B, Norfolk, Virginia 23517, Tel 757-622-2223, sales@chemteq.net  
©2009 Chemteq, Inc.

MP-1798100-051121-B

[www.chemteq.net](http://www.chemteq.net)