



Hydrogen Sulfide  
Breakthrough Indicator  
For Carbon Absorbers  
H<sub>2</sub>S BTI WP HC

(PN: 198)

*Manual*



# Hydrogen Sulfide Breakthrough Indicator Manual

## 1. Application

The Hydrogen Sulfide Breakthrough Indicator (PN: 198) 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 hydrogen sulfide gas. Water has no effect on the breakthrough indicator.

## 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 65°C (-4°F to 149°F)
e. Operating humidity:	5% RH to 95%RH
f. Minimum detectable limit:	20ppm-hr. at 30 cc/sec face velocity
g. Color change:	Green to brown to black
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:	2 years
k. Water effect:	Waterproof
l. 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 ¾" threaded plug from the carbon absorber outlet lid.
- Remove the protective red plug to activate the breakthrough indicator.
- Thread the Breakthrough Indicator into the ¾" threaded carbon absorber outlet.



Caution: Only hand tighten indicator into carbon absorber

- Replace carbon absorber when the Breakthrough Indicator changes color to brown or black.



Unexposed



Exposed  
Change carbon  
absorber

**CHEMTEQ**<sup>®</sup>

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

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

MP-1988100-050621-A