



Hydrogen Sulfide and Mercaptans
Breakthrough Indicator
For Carbon Absorbers
H₂S-HSR BTI WP
(PN: 177)

Manual



1. Application

The Hydrogen Sulfide and Mercaptans Dual Breakthrough Indicator (PN: 177) is qualitative (yes/no) colorimetric indicator for the end-of-service life of carbon absorbers and filters. The indicator is designed to provide real-time indication of the breakthrough of hydrogen sulfide and mercaptans.

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: 1.ppm-hr hydrogen sulfide & mercaptans 1.0ppm-h at 30 cm/sec face velocity
- g. Color change: Black color indicates hydrogen sulfide (lower layer)
Pink color indicates mercaptans (upper layer)
- h. Storage temperature: 4°C to 25°C, (39°F to 77°F)
- i. Shelf life: 1 year
- j. Service life: 1 year
- k. Light effect: For indoor use only.

**Outdoor use: Use with BTI protective sleeve,
PN: 180-3000. Sold separately.**

Cross interferences: Lower layer; None known. Upper layer: High concentrations of ammonia or hydrogen sulfide 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 ¾" 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 ¾" 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 and/or black.



CHEMTEQ®

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

www.chemteq.net

MP-1778100-072824-C