

## Mercaptans Breakthrough Indicator With Auxiliary Filter Trap Mercaptans BTI AFT (PN: 673)



Unexposed



Exposed  
Change carbon filter

*Manual*



### 1. Application

The Mercaptans BTI AFT (PN: 673) is a qualitative (yes/no) colorimetric indicator for real-time indication of mercaptans. The indicator is equipped with an auxiliary filter trap to ensure no mercaptans escapes to the outside environment while the indicator is changing color.

### 2. Specifications

- |                                  |   |
|----------------------------------|---|
| a. Weight:                       | 118g (4.2oz)                            |
| b. Dimensions:                   |   |
| Breakthrough indicator (Part A): | 89.9mm (3.5in), diameter 24.5mm (1.0in) |
| Auxiliary filter trap (Part B):  | 41mm (1.6in), diameter 81mm (3.2in)     |
| 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:     | 1ppm-hr at 30 cm/sec face velocity      |
| g. Color change:                 | Olive green to pink                     |
| h. Storage temperature:          | 4°C to 25°C (39°F to 77°F)              |
| i. Shelf life:                   | 1 year at 4°C to 25°C (39°F to 77°F)    |
| j. Service life:                 | 1 year.                                 |

Cross interferences: High concentrations of ammonia or hydrogen sulfide produce similar color. No other interferences are known.

### 3. Instructions

- Ensure that packaging pouch is intact.
- Open packaging pouch by tearing off the top part from one of the side notches.
- Remove the breakthrough indicator (Part A), Figure 1, and the auxiliary filter trap (part B), Figure 2, from the packaging pouch.
- Screw the breakthrough indicator (Part A), Figure 1 into the auxiliary filter trap (part B), Figure 2 as shown in Figure 3.
- Remove the protective red plugs to activate the breakthrough indicator.
- Screw in the breakthrough Indicator into the ¾" threaded carbon absorber outlet lid. Teflon tap can be used on threads to ensure proper seal.



- Formation of pink color indicates the presence of mercaptans.



Figure 1



Figure 2



Figure 3

