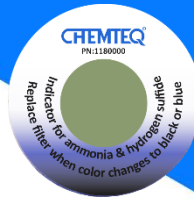
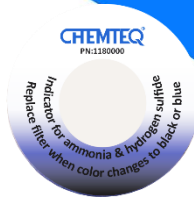
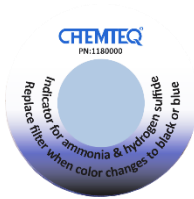




# Ammonia and Hydrogen Sulfide Breakthrough Indicator Sticker (BTIS) (PN: 118-0000)



Manual



### 1. Application

The Ammonia and Hydrogen Sulfide BTIS (PN: 118-0000) is qualitative (yes/no) colorimetric indicator for the saturation and end-of-service life of ductless hood filters. The indicator is designed to provide real-time indication of the breakthrough of ammonia and hydrogen sulfide.

### 2. Specifications

- a. Weight: 0.4g (0.02oz)
- b. Dimensions: 2.8mm (0.11in),  $\phi$ : 31.8mm (1.25in)
- c. Operating temperature:  $-20^{\circ}\text{C}$  to  $65^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $149^{\circ}\text{F}$ )
- d. Operating humidity: 5% RH to 90%RH
- e. Minimum detectable limit: Ammonia: 10ppm-hr at 30 cm/sec face velocity  
Hydrogen Sulfide: 1ppm-hr at 30 cm/sec face velocity
- f. Color change: Ammonia: light blue to purple  
Hydrogen Sulfide: light blue to black
- g. Storage temperature:  $4^{\circ}\text{C}$  to  $25^{\circ}\text{C}$ , ( $39^{\circ}\text{F}$  to  $77^{\circ}\text{F}$ )
- h. Shelf life: 2 years at  $4^{\circ}\text{C}$  to  $25^{\circ}\text{C}$ , ( $39^{\circ}\text{F}$  to  $77^{\circ}\text{F}$ )
- i. Service life: 2 years

Cross interferences: None 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 indicator sticker from the packaging pouch.
- d. Peel off the protective liner to expose the bottom adhesive (Figure 1).



**Caution: Do not touch bottom adhesive or exposure area**

- e. Hold the sticker from the edges, as shown in Figure 2, and place it on center clean area of the filter's outlet with the reading area (glossy surface) of the sticker facing up.
- f. Press firmly to attach sticker to the filter's outlet (Figure 3).
- g. Replace filter when the reading area of the indicator changes color to purple or black.

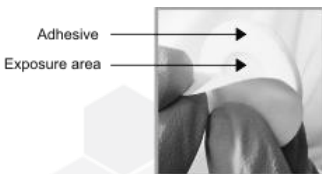


Figure 1



Figure 2



Figure 3

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