



Aromatic Diisocyanates Breakthrough Indicator (BTI) For Carbon Absorbers

(PN: 182)

Manual



1. Application

The Aromatic Diisocyanates BTI (PN: 182) is qualitative (yes/no) colorimetric indicator for the saturation and end-of-service life of filters and carbon absorbers. It is designed to provide real-time indication of the breakthrough of aromatic diisocyanates. Aromatic diisocyanates include toluene 2,4-diisocyanate (2,4-TDI), toluene 2,6-diisocyanate (2,6-TDI) and 4,4'-methylene diphenyl diisocyanate (MDI).

2. Specifications

- a. Weight: 28g (1.0oz)
- b. Dimensions: 89.9mm (3.5in), diameter 24.5mm (1.0in)
- c. Inlet dimensions: 3/4" MNPT
- d. Operating temperature: -20°C to 55°C (-4°F to 131°F)
- e. Operating humidity: 5% RH to 80%RH
- f. Minimum detectable limit: 4ppb-hr at 30 cm/sec face velocity
- g. Color change: Off white to pink or brown
- h. Storage temperature: 4°C to 23°C, (39°F to 73.4°F)
- i. Shelf life: 12 months at 4°C to 23°C, (39°F to 73.4°F)
- j. Service life: 12 months

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 the Breakthrough Indicator from the packaging pouch.
- d. Remove the 3/4" threaded plug from the carbon absorber outlet lid.
- e. Remove the protective red plug to activate the breakthrough indicator.
- f. Screw in the Breakthrough Indicator into the 3/4" threaded carbon absorber outlet lid.



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

