CHEMTEQ®

Nitrogen Dioxide Breakthrough Indicator (BTI) For Carbon Absorbers

(PN: 178)

Manual

1. Application

The Nitrogen Dioxide BTI (PN: 178) is qualitative (yes/no) colorimetric indicator for the saturation and end-of-service life of carbon absorbers. It is designed to provide real-time indication of the breakthrough of nitrogen dioxide gas.

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 55°C (-4°F to 131°F)
e.	Operating humidity:	5% RH to 90%RH
f.	Minimum detectable limit:	0.5ppm•hr at 30 cm/sec face velocity
g.	Color change:	Off white to brown to dark gray
h.	Storage temperature:	4°C to 25°C, (39°F to 77°F)
i.	Shelf life:	14 months at 4°C to 25°C, (39°F to 77°F)
j.	Service life:	14 months
k.	Light effect:	For indoor use only. Outdoor use: Use with BTI protective sleeve, PN: 180-3000. Sold separately.

Cross interferences and limitations: Strong oxidizers 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. Screw in 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 brown or dark gray.

Filter Is Good Replace Filter

CHEMTEQ®
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