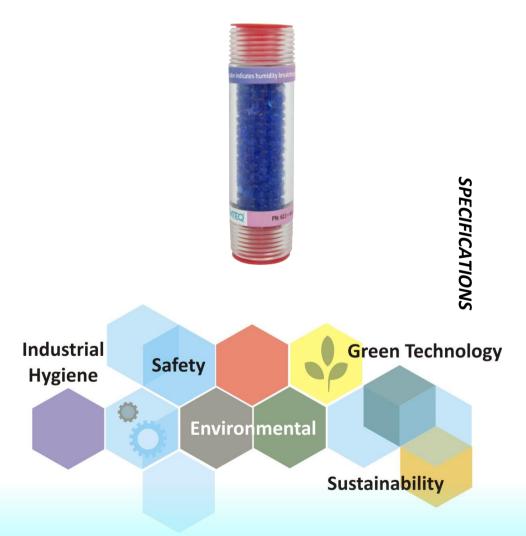
CHEMIEQ

Humidity Breakthrough Indicator Inline Humidity BTI Inline

(PN: 615)



1. Application

The In-line Humidity indicator, BTI Inline, (PN: 615) is qualitative (yes/no) colorimetric indicator for the end-of-service life of filters. It is designed to provide real-time indication of the breakthrough of water vapor.

2. Specifications

a. Weight: b. Inlet & outlet dimensions:	28g (1.0oz) ¾" MNPT
c. Operating temperature:	0°C to 65°C (32°F to 149°F)
d. Minimum detectable limit:	15µg/cm ³ (50%RH at 23°C) in 20 minutes at 30cm/min air flow*
e. Color change:	See figure 1
f. Storage temperature:	4°C to 25°C, (39°F to 77°F)
g. Shelf life:	1 years at 4°C to 25°C, (39°F to 77°F)
h. Service life:	1 year
i. Light effect:	None

* At certain percentage relative humidity (%RH), absolute humidity (μg/cm³) varies significantly with temperature and accordingly the indicator response time. For example, at 50% RH and 10°C, absolute humidity is 4.7µg/cm³. Accordingly, it takes the indicator 46 minutes to show noticeable color change, whereas at 50% RH and 35°C, absolute humidity is 19.7µg/cm³. Accordingly, it takes the indicator 10 minutes to show noticeable color change.

Cross interferences: No 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 ¼" threaded plugs from inline tubing.
- e. Remove the protective red plugs to activate the breakthrough indicator.
- f. Thread the Breakthrough Indicator into the $\frac{1}{4}$ " threaded inline tubing.



g. Replace filter when the Breakthrough Indicator changes color to pink (Figure 1).

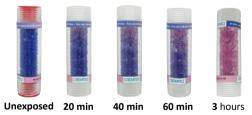


Figure 1: Exposures to 15µg/cm³ water vapor



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