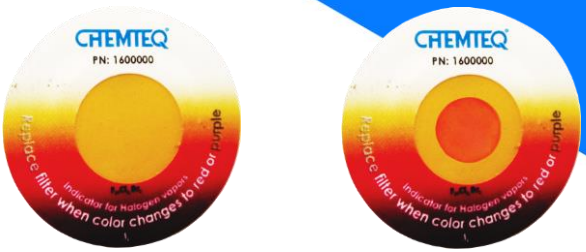
CHEMTEQ®

Halogens
Breakthrough Indicator Sticker
(BTIS)
(PN: 160-0000)

Manual



1. Application

The Halogens BTIS (PN: 160-0000) 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 halogen gases and vapors.

2. Specifications

a.	Weight:	0.4g (0.02oz)
b.	Dimensions:	2.8mm (0.11in),ϕ: 31.8mm (1.25in)
c.	Operating temperature:	-20°C to 55°C (-4°F to 131°F)
d.	Operating humidity:	5% RH to 85%RH
e.	Minimum detectable limit:	0.3ppm·hr at 30 cm/sec face velocity
f.	Color change:	
	Fluorine, Chlorine and Bromine	Yellow to red
	Iodine	Yellow to dark blue
g.	Storage temperature:	4°C to 25°C, (39°F to 77°F)
h.	Shelf life:	1 year at 4°C to 25°C, (39°F to 77°F)
i.	Service life:	14 months

Cross interferences: Hydrogen chloride & hydrochloric acid vapors at concentrations greater than 0.5 ppm impair the performance of the halogens breakthrough indicator. Halogens concentrations greater than 50 ppm for extended period of time bleaches the halogen indicator. 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 indicator sticker from the packaging pouch.
d. Peel off the protective liner to expose the bottom adhesive (Figure 1).

Caution: Do not touch bottom adhesice 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 red or dark blue.

Figure 1 Figure 2 Figure 3

CHEMTEQ®
Chemteq, Inc., 600 West 24th Street, Suite B, Norfolk, Virginia 23517, Tel 757-622-2223, sales@chemteq.net