



ChemWipe
Mercury & Mercury II Compounds
Wipe for Surfaces
(PN: 306)

Manual



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1. Application

The ChemWipe PN: 306 is a colorimetric surface wipe designed to provide real-time indication of the presence of trace amounts of mercury & mercury II compounds on surfaces. The unique design of the Mercury ChemWipe provides uniform color change formation enabling user to quantify mercury contamination using the mercury color comparator (PN: 306-6000).

2. Specifications

2.1. Overall Specification


- | | |
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| a. Weight: | 0.5g (0.02oz) |
| b. Dimensions: | 8.5mm (0.33in), Φ : 32mm (1 $\frac{1}{4}$ " in) |
| c. Operating temperature: | 4°C to 60°C (39°F to 140°F) |
| d. Operating humidity: | 5% RH to 95%RH |
| e. Minimum detectable limit: | 2 μ g |
| f. Detection range (color comparator): | 2 μ g to 250 μ g |
| g. Color change: | Off white to peach |
| h. Color stability: | 6 months |
| i. Storage temperature: | 4°C to 25°C, (39°F to 77°F) |
| j. Shelf life: | 2 years |

2.2. Cross interferences

Acids and strong oxidizers impair the performance of the Mercury ChemWipe. No other interferences are known.

3. Operating Instructions

- Use gloves and protective glasses when handling mercury.
- Ensure that packaging pouch is intact.
- Open packaging pouch by tearing off the top part from one of side notches.
- Remove wipe from packaging pouch.

 Caution: Avoid touching wipe media collection surface

- Hold the ChemWipe from the round handle (Figure 1) and swipe the target surface (Figure 2). If you are dealing with rough or irregular surface, wet the bottom surface with 4 to 5 drops of water and swipe the target surface immediately as shown in Figure 2.
- Allow five minutes for color development. Formation of peach color on the ChemWipe indicates the presence of at least 2 μ g of mercury and/or mercury II compounds

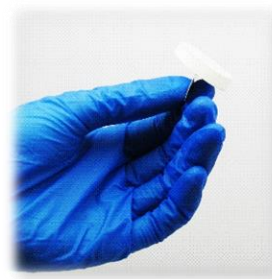
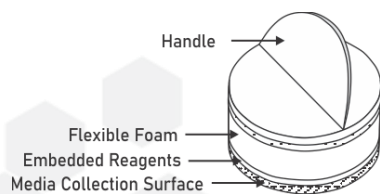


Figure 1



Figure 2

- Use the color comparator (Figure 3) to quantify the mass of mercury collected on the wipe:
 - Insert the protective sleeve into the top left corner of the color comparator (Figure 4).
 - Place the wipe upside down on the protective sleeve (Figure 5).
 - Turn the bottom color wheel to match colors. The color formed on the wipe is directly proportional to the mass of mercury collected on the wipe.
 - To compensate for any dark substance or dirt collected with the sample, turn the top gray scale wheel to achieve exact color match.



Figure 3

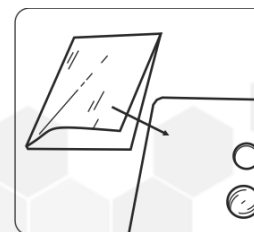


Figure 4

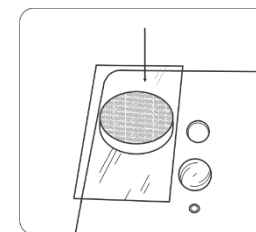


Figure 5