

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





Manual



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

a. Weight: 0.5g (0.02oz)

b. Dimensions: 8.5mm (0.33in), Φ : 32mm (1½" 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: 2mg

f. Detection range (color comparator): 2mg to 250mg 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: 1 year

2.2. Cross interferences

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

3. Operating Instructions

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



- e. 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.
- f. Allow five minutes for color development. Formation of peach color on the ChemWipe indicates the presence of at least 2µg of mercury and/or mercury II compounds.

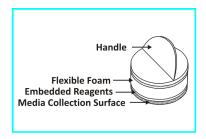






Figure 1

Figure 2

- g. 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

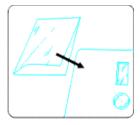


Figure 4

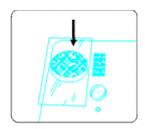


Figure 5

