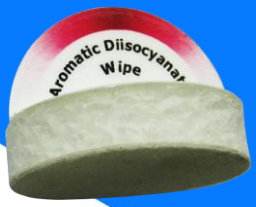
ChemWipe
Aromatic Diisocyanates Wipe for Surfaces
(PN: 304)

Manual



Blank | 4µg | 50µg | 100µg

5 minutes from sampling

~30ng

30 minutes from sampling

1. Application

The ChemWipe PN: 304 is a colorimetric surface wipe designed to provide real-time indication of the presence of trace amounts of aromatic diisocyanates on surfaces. The unique design of the aromatic diisocyanates ChemWipe provides uniform color change formation enabling user to quantify aromatic diisocyanates contamination using the color comparator (PN: 304-6000).

Aromatic diisocyanates include toluene 2,4-diisocyanate (2,4-TDI), toluene 2,6-diisocyanate (2,6-TDI) and 4,4'-methylene diphenyl diisocyanate (MDI). The ChemWipe detects monomers and oligomers.

2. Specifications

2.1. Overall Specification

a. Weight:	0.5g (0.02oz)
b. Dimensions:	8.5mm (0.33in), Φ: 32mm (1¼" 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:	4µg in 5 minutes or approximately 0.03µg (30ηg) in 30 minutes
f. Detection range with color comparator:	2 to 500µg
g. Color change:	Off white to red
h. Color stability:	6 months
i. Storage temperature:	4°C to 25°C, (39°F to 77°F)
j. Shelf life:	2 year

2.2. Cross interferences

None known

3. Operating Instructions

a. Use gloves and protective glasses when handling diisocyanates.

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.

⚠ Caution: Avoid touching wipe media collection surface

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 Isopropanol and swipe the target surface immediately as shown in Figure 2.

f. Allow five minutes for color development. Formation of red color on the ChemWipe indicates the presence of at least 4µg of aromatic diisocyanates. If the red color develops after 30 minutes, this indicates the presence of approximately 0.03µg (30ηg) of aromatic diisocyanates.

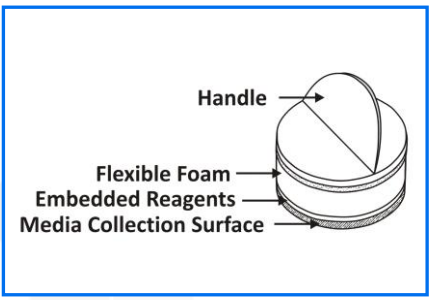


Figure 1

Figure 2

g. Use the color comparator (Figure 3) to quantify the mass of aromatic diisocyanates 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 aromatic diisocyanates 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

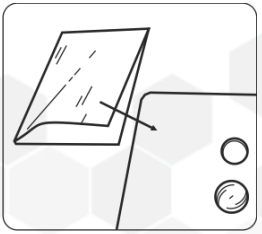


Figure 4

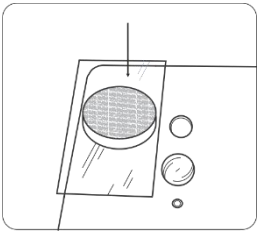


Figure 5

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