

CDS – Simultaneous-Test-Set V

Order No. 81 03 200

Application Range

Qualitative measurement of volatile substances that may be present at warfare-related materials toxic waste sites.

Substance	Sensitivity
Cyanogen Chloride	0.25 ppm
Thioether (Sulfur Mustard)	1 mg/m ³
Phosgene	0.2 ppm (approx. 7 mm pale green)
Chlorine (Cl ₂)	0.2 ppm
Phosphoric Acid Ester	0.025 ppm Dichlorovos
Number of Strokes n:	50
Time for Measurement:	approx. 3 min



D-13335-2010

Ambient Operating Conditions

Temperature: 5 to 30 °C
 Humidity: 5 to 15 mg H₂O / L
 Measurement outside the given temperature and humidity ranges may affect sensitivities. Water-aerosols can produce minus errors.



D-13336-2010

Reading Evaluation: Attention! Follow Instructions in Detail!

1. Cyanogen Chloride

Color band: white → pink

Cross sensitivity: Cyanogen bromide is also indicated, but with different sensitivity.

2. Thioether (Sulfur Mustard)

Color band: yellow → orange

Cross sensitivity: Various thioethers can be indicated, differentiation among thioethers is not possible.

3. Phosgene

Color band: yellow → blue-green

Cross sensitivity: Hydrochloric acid does not affect the indication up to 100 ppm.

4. Chlorine

Color band: white → yellow-orange

Cross sensitivity: Bromide and nitrogen dioxide will also be indicated, but with different sensitivities.

5. Phosphoric Acid Ester

Color band: yellow → red
(min. 1 min)

Cross sensitivity: Other Phosphoric acid esters will also be indicated, but with different sensitivities.
