5.1.3 Data about Dräger Simultaneous Test-Set

Simultaneous Test-Set I for inorganic fumes

Order No. 81 01 735

Application Range

Standard Measuring Range and Color Change:

Dräger-Tubes in Simultaneous Test-Set I	1. Scale Mark	2. Scale Mark
1. Acid gas	Hydrochloric Acid	
blue → yellow	5 ppm	25 ppm
2. Hydrocyanic acid		
yellow → red	10 ppm	50 ppm
3. Carbon Monoxide		
white → brown green	30 ppm	150 ppm
4. Basic gas	Ammonia	
yellow → blue	50 ppm	250 ppm
5. Nitrous gas	Nitrogen Dioxide	
pale grey → blue grey	5 ppm	25 ppm
Number of Strokes n:	10	
Time for Measurement:	approx. 40 s	

D-28054-2017

D-28054-2017

Ambient Operating Conditions

Temperature:	10 to 30 °C
Absolute Humidity:	5 to 15 mg H_2O / L

Semi-quantitative measurements are also possible outside this range. Water aerosols may result in minus errors.

Attention

The Simultaneous Test-Set was developed for the semi-quantitative measurement of fumes and decomposition gases. It is used to estimate and limit risks by obtaining information about health risks or possible intoxication hazards in the area of a fire. The Simultaneous Test-Set cannot be used to determine the risk of explosion. A negative result with the Simultaneous Test-Set does not exclude the presence of other hazardous gases.

Simultaneous Test-Set II for inorganic fumes

Order No. 81 01 736

S

Application Range

Standard Measuring Range and Color Change:

Dräger-Tubes in Simultaneous Test-Set II	1. Scale Mark	2. Scale Mark
1. Sulfur Dioxide blue → white	–	10 ppm
2. Chlorine white → orange	–	2.5 ppm
3. Hydrogen Sulfide white → pale brown	5 ppm	25 ppm
4. Phosphine yellow → red	–	0.3 ppm
5. Phosgene white → red	–	0.5 ppm
Number of Strokes n:	10	
Time for Measurement:	approx. 40 s	

D-13325-2010

D-13325-2010

Ambient Operating Conditions

Temperature:	10 to 30 °C
Absolute Humidity:	5 to 15 mg H_2O / L

Semi-quantitative measurements are also possible outside this range. Water aerosols may result in minus errors.

Attention

The Simultaneous Test-Set was developed for the semi-quantitative measurement of fumes and decomposition gases. It is used to estimate and limit risks by obtaining information about health risks or possible intoxication hazards in the area of a fire.

The Simultaneous Test-Set cannot be used to determine the risk of explosion. A negative result with the Simultaneous Test-Set does not exclude the presence of other hazardous gases.

Simultaneous Test-Set Fumigation I

Order No. 81 03 410

Application Range

Standard Measuring Range and Color Change:

Dräger tube in Simultaneous Test-Set Fumigation I	Scale Mark
1. Formaldehyde white → pink	1 ppm
2. Phosphine yellow → red	0.1 ppm
3. Hydrocyanic Acid yellow → red	10 ppm
4. Methyl Bromide green → brown	5 ppm
5. Ammonia yellow → blue	50 ppm
Number of strokes n:	50
Measurement period:	approx. 3 min.

D-28060-2017

D-28060-2017

Ambient Operating Conditions

Temperature:	10 to 30 °C
Absolute Humidity:	5 to 15 mg H_2O / L

Measurement outside the given temperature and humidity may affect sensitivities. Water-aerosols can produce minus error.

Attention

The Simultaneous Test was developed for the semi-quantitative measurement. The Simultaneous Test has not been designed for detection of explosion hazards. If the simultaneous tests indicate negative results (substance is not present), the presence of other dangerous substances can not be excluded.

Simultaneous Test-Set Fumigation II

Order No. 81 03 380

S

Application Range

Standard Measuring Range and Color Change:

Dräger tube in Simultaneous Test-Set Fumigation II	Sensitivity
1. Formaldehyde white → pink	1 ppm
2. Phospine yellow → red	0.3 ppm
3. Hydrocyanic Acid yellow → red	10 ppm
4. Methylbromide green → brown	0.5 ppm
5. Ethylenoxide white → pink	1 ppm
Number of strokes n:	50
Measurement period:	approx. 4 min

Ambient Operating Conditions

Temperature:	10 to 40 °C
Absolute Humidity:	5 to 40 mg H_2O / L

Attention

The Simultaneous Test-Set was developed for the semi-quantitative measurement of organic vapors. It is used to estimate and limit risks by obtaining information about health risks or possible intoxication hazards in the area of a fire.

The Simultaneous Test-Set cannot be used to determine the risk of explosion. A negative result with the Simultaneous Test-Set does not exclude the presence of other hazardous gases.

Simultaneous Test-Set Conductive Compounds 10/01

Order No. 81 03 170

Application Range

Standard Measuring Range and Color Change:

Dräger tube in Simultaneous Test-Set	1. marking ETW (tolerance value for fire-fighters)
1. Carbon monoxide (CO) *white → brown green*	33 ppm
2. Hydrocyanic acid yellow → red	3.5 ppm
3. Hydrochloric acid blue → yellow	5.4 ppm
4. Nitrous gases (nitrogen oxides) pale grey → blue grey	8.2 ppm
5. Formaldehyde white → pink	1 ppm
Number of strokes n:	20
Measurement period:	approx. 2 min

D-28058-2017

D-28058-2017

Ambient Operating Conditions

Temperature:	5 to 30 °C
Absolute Humidity:	5 to 15 mg H_2O / L

Semi-quantitative measurements are also possible outside this range. Water aerosols may result in minus errors.

Attention

The Simultaneous Test-Set was developed for the semi-quantitative measurement of fumes and decomposition gases. It is used to estimate and limit risks by obtaining information about health risks or possible intoxication hazards in the area of a fire.

The Simultaneous Test-Set cannot be used to determine the risk of explosion. A negative result with the Simultaneous Test-Set does not exclude the presence of other hazardous gases.

Simultaneous Test-Set III for organic vapors

Order No. 81 01 770

S

Application Range

Standard Measuring Range and Color Change:

Dräger-Tubes in Simultaneous Test-Set III	1. Scale Mark	2. Scale Mark
1. Ketones	Acetone	
pale yellow → dark yellow	1.000 ppm	5.000 ppm
2. Aromatics	Toluene	
white → brown	100 ppm	500 ppm
3. Alcohols	Methanol	
yellow → mint green	200 ppm	1.000 ppm
4. Aliphatics	n-Hexane	
white → brown	50 ppm	100 ppm
5. Chlorinated hydrocarbons	Perchloroethylene	
yellow white → grey blue	50 ppm	100 ppm
Number of Strokes n:	10	
Time for Measurement:	approx. 40 s	

D-28057-2017

D-28057-2017

Ambient Operating Conditions

Temperature:	10 to 30 °C
Absolute Humidity:	5 to 15 mg H_2O / L

The ranges given for temperature and humidity apply to calibrations with the original substances. Semi-quantitative measurements are also possible outside this range.

Attention

The Simultaneous Test-Set was developed for the semi-quantitative measurement of organic vapors. It is used to estimate and limit risks by obtaining information about health risks or possible intoxication hazards in the area of a fire.

The Simultaneous Test-Set cannot be used to determine the risk of explosion. A negative result with the Simultaneous Test-Set does not exclude the presence of other hazardous gases.