



WARNING

The contents of the tube have toxic/corrosive properties.
Do not swallow and avoid contact with the skin or eyes.
Be careful when opening - glass splinters may fly off.

1 Application range/ambient conditions

Determination of nitrous fumes (NO_x , NO , NO_2) in air, exhaust gases, welding gases, and firing fumes.

Measuring range : 20 to 500 ppm

Number of strokes (n) : 2

Measuring time : approx. 30 s

Standard deviation : ± 10 to 15 %

Color change : gray \rightarrow orange-brown

Temperature : 15 °C to 40 °C

Humidity: 3 - 40 mg/L (corresp. to 100 % r.h. at 35 °C)

Correction factor: $F = 1013/\text{actual atmospheric pressure (hPa)}$.

2 Reaction principle

$\text{NO} + \text{O}_x \rightarrow \text{NO}_2$

$\text{NO}_2 + \text{o tolidine} \rightarrow \text{orange-brown reaction product}$.

3 Prerequisites

The tubes and the Dräger tube pumps are designed to work together in an optimum way. Using other pumps may jeopardize the proper functioning of the tubes.

Observe the instructions for use of the pump (tightness test).

The measured value is only valid for the location and time of the measurement.

4 Measurement and evaluation



WARNING

All tube tips must be broken off, otherwise a measurement is not possible. When the tube is inserted, the arrow must be pointing towards the pump.

- Break off both tips of the tube in the tube opener.
- Insert the tube tightly into the pump. The arrow points toward the pump.
- Draw the air or gas sample through the tube.
- Read the entire length of the discoloration.
- Multiply the value by factor F for correction of the atmospheric pressure.
- Flush the pump with air after use.

$1 \text{ ppm NO}_2 = 1.92 \text{ mg NO}_2/\text{m}^3$

$1 \text{ mg NO}_2/\text{m}^3 = 0.52 \text{ ppm NO}_2$ (at 20 °C, 1013 hPa)

5 Cross sensitivities

Chlorine and ozone do not interfere within the range of their permissible exposure limits.

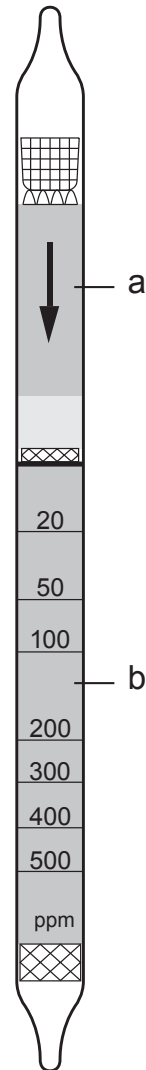
6 Additional information

The order number, use-by date, storage temperature and serial number can be found on the package label. Specify the serial number in case of queries.



NOTICE

Do not use the tubes if the use-by date has expired.
Dispose of the tubes in accordance with the local regulations or return them in the packaging. Store the items so that they are safe from unauthorized access.



a = gray oxidation layer,
b = light gray indicating layer,