GASTEC Instructions for No.2HT Carbon Dioxide Detector Tube

FOR SAFE OPERATION:

Read this manual carefully.

A WARNING :

- 1. Use only Gastec detector tubes in a Gastec syringe.
- 2. Do not interchange or use non-Gastec parts or components in Gastec's detector tube and syringe.
- 3. The use of non-Gastec parts or components in Gastec's detector tube and syringe or use of a non-Gastec detector tube with a Gastec syringe or use of a Gastec detector tube with a non-Gastec syringe may result in property damage, serious bodily injury, and death; voids all warranties; and voids all performance and data accuracy guaranties.

CAUTION : If not observed, injuries to the operator or damage to the product may result.

- 1. When breaking the tube ends, keep away from eyes.
- 2. Do not touch the broken glass tubes, pieces and reagent with bare hand(s).

$\bigtriangleup {\sf NOTES}$: For maintaining performance and reliability of the test result.

- 1. Use Gastec Special Syringe Pump together with Gastec Detector Tubes only for the purposes specified in the instruction manual of the detector tube.
- 2. Use this tube within the temperature range of 0 40°C(32 104°F).
- 3. Use this tube within the relative humidity range of 0 90%.
- 4. This tube may be interfered by the coexisting gases. Please refer to the "INTERFERENCES".
- 5. Shelf life and storage conditions of the tube are marked on the label of the box of tube.

APPLICATION OF THE TUBE :

Use of this tube for the detection of Carbon Dioxide in air or the industrial areas and environmental atmospheric condition.

SPECIFICATION :

(As a result of Gastec's commitment to continued improvement, specifications are subject to change without notice.)



** Shelf Life : Please refer to the Validity Date printed on the box of tube.

** Store the tubes in dark and cool place.

CORRECTION FOR TEMPERATURE, HUMIDITY AND PRESSURE :

- **Temperature :** Temperature correction is not required.
- Humidity : Humidity correction is not required.
- Pressure : To correct for pressure, multiply the tube reading by

Tube Reading (%) × 1013 (hPa) Atmospheric Pressure (hPa)

MEASUREMENT PROCEDURE :



- 1. Break tips off a fresh detector tube with the tube tip breaker.
- 2. Make certain the plunger of syringe is all the way in. Pull the plunger to take sample until the plunger head attains the mark "20".
- 3. Insert the tube into the syringe with "G" mark end towards to the inlet as pictured in the figure.
- 4. Push the plunger all the way down with constant infusion rate (1mL/sec).
- 5. Read concentration at the interface of the stained-to-unstained reagent.
- 6. If atmospheric correction is needed, refer to the "Correction for Pressure".

INTERFERENCES :

| Substance | Concentration | Interference | Changes colour by itself |
|-------------------|---------------|--------------|--------------------------|
| Ammonia | | No | No |
| Carbon Monoxide | | No | No |
| Hydrogen sulphide | | No | No |
| Hydrogen chloride | | No | No |
| Chlorine | | No | No |
| Nitrogen oxides | | No | No |
| Sulphur dioxide | | No | No |
| Amines | | No | No |
| Organic gases | | No | No |

DANGEROUS AND HAZARDOUS PROPERTIES :

Threshold Limit Value-Time Weighted Average by ACGIH (2008) : 5,000 ppm Threshold Limit Value-Short Term Exposure limit by ACGIH (2008) : 30,000 ppm

DISPOSAL INSTRUCTION :

Reagent of the tube dose not use toxic substances. When dispose of the tube regardless of whether used or unused, follow the rules and regulations of the local government.

WARRANTY :

If you have any questions regarding gas detection and quality of the tubes, please feel free to contact your Gastec representatives.

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