

# GASTEC Instructions for No. 6Ag Water Vapour Airtec Tube

## FOR SAFE OPERATION :

Read this manual and the instruction manual carefully.

**⚠ 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).

**△ NOTES :** For maintaining performance and reliability of the test results.

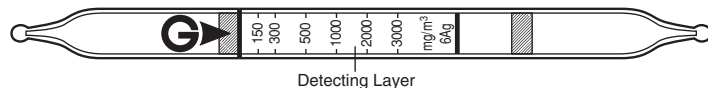
1. Use this tube within the temperature range of 0 - 40°C (32 - 104°F).
2. Shelf life and storage conditions of the tube are marked on the label of the box of tube.

## APPLICATION OF THE TUBE :

Use of this tube for the detection of Water Vapour to your high pressure air source, compressor, cylinder, or air line and adjust the flow meter to the required setting.

## SPECIFICATION :

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



Measuring Range	150 – 3,000 mg/m <sup>3</sup>
Sampling Volume (Flow Metre)	300 mL
Sampling Rate	300 mL / min.
Sampling Time	1 minute
Colour Change	Green → Purple
Reaction Principle	$\text{H}_2\text{O} + \text{Mg}(\text{ClO}_4)_2 \rightarrow \text{Mg}(\text{ClO}_4)_2 \cdot \text{H}_2\text{O}$

**\*\*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 :** No correction is required.

**Pressure :** To correct for pressure, multiply the tube reading by

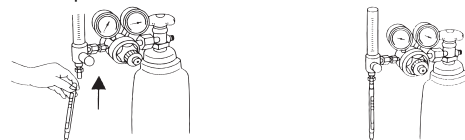
$$\frac{\text{Tube Reading (mg/m}^3\text{)} \times 1013 \text{ (hPa)}}{\text{Atmospheric Pressure (hPa)}}$$

## MEASUREMENT PROCEDURE :

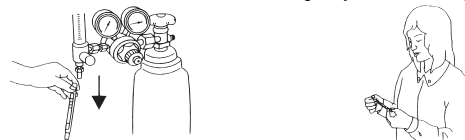
1. Install a reducer pressure with gauge and flow meter to a cylinder, compressor or air line and adjust the flow meter to the required setting.
2. Break tips off a fresh detector tube in the tube tip breaker and insert a tube into a tube holder.



3. Attach the rubber tube holder to the flow meter outlet. Make certain the tube arrow **G** on the tube is pointing in a down direction.
4. Turn on the cylinder or compressor and confirm the flow meter according to each Airtec tube specifications.
5. Time the flow rate with a stopwatch.



6. As soon as sampling time has elapsed turn off the cylinder or compressor, and remove the tube from the tube holder and then read the colour change layer immediately.



## DISPOSAL INSTRUCTION :

Reagent of the tube does 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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