



Technical Note #107

Gastec Detector Tube Information

There are more than 600 applications for Gastec Detector Tubes; included are tips for understanding, storing, and disposing of tubes.

Whether for a routine inspection or a HazMat emergency, you can count on Nextteq's complete line of Gastec Detector Tubes to precisely identify and measure gases and vapors—over 600 applications. With Gastec, you can measure substances other tubes simply can't—no other detector tube manufacturer can measure more substances.

Pre-calibrated, direct-read detector tubes offer distinct lines of demarcation for easier viewing and require no interpretation, dual scales, concentration charts, or color comparison charts. With detection limits for many chemicals lower than competitor limits, the tubes can measure trace levels of contaminants that competitors cannot. Additionally, Gastec's higher maximum detection limits can provide a more accurate measurement of contamination than competitors' lower range detector tubes. Offering some of the broadest operating temperature ranges available, the tubes can be used in virtually any environment—from 32°F to 104°F (0°C-40°C).

Attributes

The following symbols are used on the Nextteq Price List and on the Nextteq website (www.nextteq.com) to quickly notate attributes of the tubes:

- [+] Nine tests (10 tubes) per box; each test uses the same scrubber tube and a different tube
- [++] Five tests (10 tubes) per box; each test uses a primary tube and an analyzer tube (twin tubes)
- [+++] Five tests (5 tubes) per box
- [T] Tubes need a temperature correction factor or table for the true concentration
- [H] Tubes need a humidity correction factor or table for the true concentration
- [*] Tubes need refrigeration or storage between 32°F and 50°F (0°C-10°C)
- [SEI] Tubes are certified by the Safety Equipment Institute (SEI)

Tube Information

Ten tubes are included in each box, unless otherwise noted. Measuring ranges can be obtained by half pump strokes (50 ml), a single full pump stroke (100 ml) or multiple full strokes.

Detector tubes are primarily designed to measure the specific gases their tube names imply. But it is possible to measure other substances of similar chemical properties with the aid of a correction factor or correction chart; these are outlined in the operating instructions and in the Gastec Detector Tube Handbook for applicable tubes. In the Price List, such tubes are designated with shading.

Storage Information

Detector tubes contain sensitive reagents that are ready to react, and some reagents may be corrosive, so care should be taken to store them properly.

Always store Gastec Detector Tubes in a cool dark place. Optimal storage temperature is between 32°F and 50°F (0°C-10°C). Do not store tubes where they will be exposed to direct sunlight. Never store tubes above normal room temperature. Keep tubes in a safe place and out of the reach of children. Do not freeze.

Disposal Information

Detector tubes may contain chemical reagents that may include substances subject to laws and regulations requiring specific disposal procedures.

A detector tube that has been used or whose expiration date has passed should be disposed of properly in accordance with local statutes and regulations.

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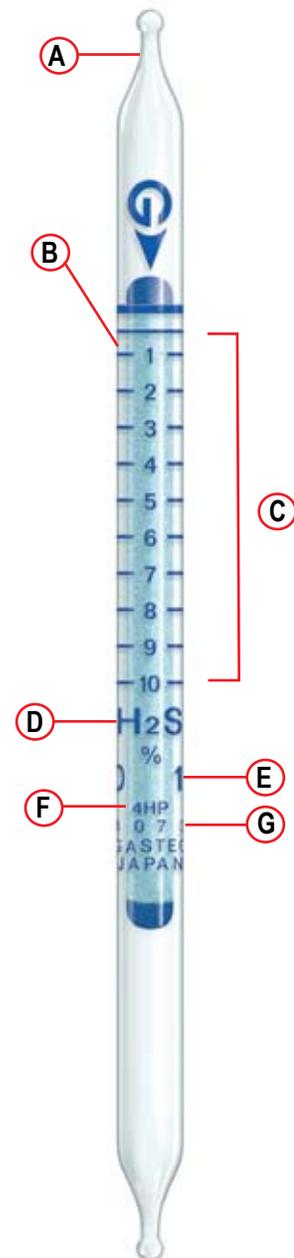


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Features of Tubes

- A. High quality glass tube tips break easily and do not shatter for your safety.
- B. Reagent in the tube is highly sensitive to the target substance, so it quickly produces a distinct color change when the chemical is present. Gastec's stringent requirements regulate the length of color change layer, the clearness of demarcation, and the tone and brightness of color change.
- C. Calibration scale is printed in an ink that permits high legibility against the color change layer. The scale is determined in each production lot for greater accuracy. Pre-calibrated, direct-read detector tubes have distinct lines of demarcation to allow easier viewing; they require no interpretation, dual scales, or color charts.
- D. Chemical formula for the primary application is provided on each tube for quick identification.
- E. Standard number of pump strokes required to collect the standard volume of air for a standard range is available on the tube for ease of use.
- F. Detector tube part number is on each tube, letting you know not just the substance to be detected with that tube, but the level of concentrations. For example, H, M, and L represent high, middle, and low concentrations.
- G. Gastec's Quality Control (QC) number is printed on every Gastec detector tube. Detector tubes from the same production lot have the same QC number. Sample tubes with that QC number will be kept and monitored periodically to verify quality.





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Features of Tube Boxes

- A. Detector tube number is on the box in two places so you can quickly grab the right box of tubes.
- B. Printed expiration date spells out the period that Gastec assures the quality of the detector tube provided they are stored properly.
- C. Name of the primary substance the detector tube will measure is provided on the box for quick identification.
- D. Chemical formula for the primary application is provided on the box for quick identification.
- E. Measuring range, the range of concentrations that can be measured by changing the sample volume, is provided on the box for ease of use.
- F. Calibration scale printed on the box is the same as the one on the tube, showing the range of concentrations that can be measured with the standard sample volume.
- G. Gastec's Quality Control (QC) number is printed on every Gastec detector tube. Detector tubes from the same production lot have the same QC number. When a QC number is registered, sample tubes with that QC number will be kept and monitored periodically to verify quality.
- H. Number of detector tubes in the box and number of measurements possible with these tubes.
- I. Storage requirements are printed on the box for ease of use. These conditions must be observed to maintain the quality of the detector tube in storage.

