

Gastec Detector Tube for POLYTEC-IV Multi Test Tube Tube No. 27

Sample Gas vs. Qualitative Test Color Comparison Information

Sampling time: 30 seconds for 1 pump stroke (100ml)
Reaction principle: See the table below.

Substances & measurement results	Dyeing layer		Reaction principle
	No. Name (Original color)	1	
Ammonia, Amines (≥ 25ppm) (≥ 150ppm)	NH ₃ (Purple)	Faint yellow - Yellow	
Hydrogen chloride (≥ 5ppm) (≥ 150ppm) (*)	HCl (Yellow)	Faint red Red	
Hydrogen sulfide (≥ 10ppm) (≥ 120ppm) (≥ 200ppm) (≥ 800ppm)	H ₂ S (White)	Faint brown Brown	
Chlorine (≥ 5ppm) (≥ 20ppm) (≥ 50ppm)	HClO ₂ (Blue)	Faint yellow Yellow	
Sulfur dioxide (≥ 10ppm) (≥ 50ppm)	SO ₂ (Blue)	Faint yellow Yellow	
Nitrogen dioxide (≥ 5ppm) (≥ 20ppm)	NO ₂ (White)	Faint yellow Yellow	
Acetylene (≥ 200ppm) (≥ 2,000ppm)	CO ₂ +H ₂ O+2HCl (Blue)	Faint yellow Yellow	
Carbon monoxide (≥ 50ppm)	CO (Blue)	Faint yellow Yellow	
Ethylene (≥ 10,000ppm)	NO ₂ +C ₂ H ₄ (White)	Faint yellow Yellow	
Phosphine (≥ 50ppm) (≥ 700ppm)	CO+H ₂ O+2HCl (Blue)	Faint yellow Yellow	
Hydrogen (≥ 50,000ppm) (≥ 100,000ppm)	NO ₂ +C ₂ H ₄ +O ₂ +H ₂ O (White)	Faint yellow Yellow	
Methyl mercaptan (≥ 200ppm) (≥ 1,000ppm)	CO+H ₂ O+2HCl (Blue)	Faint yellow Yellow	
Propylene (≥ 10,000ppm) (≥ 50,000ppm)	CO+H ₂ O+2HCl (Blue)	Faint yellow Yellow	
Carbon dioxide (≥ 5,000ppm) (≥ 20,000ppm)	CO ₂ +K ₂ CO ₃ (Blue)	Faint yellow Yellow	

#27

GASTEC POLYTEC-IV (QUALITATIVE ANALYSIS) DETECTOR TUBE

The Gastec Detector Tube No. 27 for Polytec-IV qualitative analysis detector tube has been developed to provide quick detection of inorganic gases and vapors in fire fighting with the Gastec Multi-Stroke Gas Sampling Pump.

Prior to entry during and after fires in the building use the Polytec-IV tube and it provides to determine the substances in that area. To determine the concentration of the gases or vapors, assess the indication of the test result by Polytec-IV and use the proper Gastec detector tubes and obtain the results.

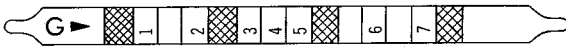
If the Polytec-IV tubes are used for the fire site, check the Gastec pump leak tight with unused tube connecting the inlet of the pump.

PERFORMANCE :

Number of Pump Strokes : 1 stroke only (100 ml)
Sampling Time : 30 seconds per pump stroke
Color Change : Refer to the following table

SHELF LIFE :

Please refer to the term of validity of a label of a Detector Tube Box.



No.	Color	Detecting Gases	No.	Color	Detecting Gases
1	Purple	Ammonia	5	White	Chlorine, NO ₂
2	Yellow	Hydrogen Chloride	6	Yellow	Hydrogen Sulfide, CO
3	White	Hydrogen Sulfide	7	Blue	Carbon Dioxide
4	Blue	Chlorine, SO ₂ , NO ₂			

MEASUREMENT PROCEDURE :

- Break tips off a fresh detector tube by bending each tube end in the tube tip breaker of the pump.
- Insert the tube securely into the rubber inlet of the pump with the arrow on the tube pointing toward the pump.
- Make certain the pump handle is all the way in. Align the guide marks on handle and pump body.
- Pull the handle all the way out until it locks on 1 pump stroke (100 ml). Wait 30 seconds for completion of sampling.
- After the pump stroke the color stain indicates the existence of the substance shown in the table below:

STORE THE TUBES BELOW 10°C(50°F)

Manufacturer: Gastec Corporation
6431 Fukaya, Ayase-City 252, Japan

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