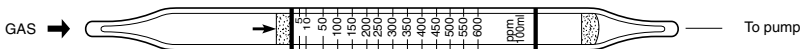


Tube No.  
**167S**

# HYDROGEN SELENIDE



## 1. PERFORMANCE

- 1) Measuring range : 5-600 ppm      1-120 ppm  
Number of pump strokes : 1 (100mℓ)    5 (500mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 0.5 ppm (500mℓ)
- 4) Shelf life : 1 year
- 5) Operating temperature : 0 ~ 40 °C
- 6) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 7) Colour change : Pale yellow → Dark brown

## 2. RELATIVE STANDARD DEVIATION

RSD-low : 10%    RSD-mid. : 10%    RSD-high : 5%

## 3. CHEMICAL REACTION

By reacting with Gold chloride (III), Colloidal gold is liberated.



## 4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence
Acetylene			3%	Higher readings are given.
Carbon monoxide			0.1%	∕
Sulphur dioxide		Pale blue stain is produced.		∕
Hydrogen sulphide	10	Brown stain is produced.		∕
Mercury vapours		Similar stain is produced.		
Arsine		∕	10	∕
Iron carbonyl		∕	10	∕
Nickel carbonyl		∕	10	∕

(NOTE)

When the concentration is below 5 ppm, 5 pump strokes can be used to determine the lower concentration.

Following formula is available for the actual concentration.

Actual concentration =  $1/5 \times$  Reading value