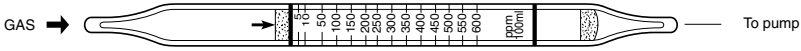
Tube No.
167S

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℃
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.

$H_2Se + AuCl_3$ (III)→Au

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 × Reading value