

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Sulphur Dioxide SO₂

TWA (TLV): 2 ppm

STEL (TLV): 5 ppm

SSD-3

Flammable Range: NA

Specification:

| | Extended | Standard | Extended |
|---------------------------------|--|-------------|--------------|
| Measurement Range | 2.5 – 50 | 5 - 100 ppm | 10 - 200 ppm |
| No. of Pump Strokes | 2 (200 mL) | 1 (100 mL) | 0.5 (50 mL) |
| Volume Correction Factor (VCF)* | 0.5 | 1.0 | 2 |
| Sampling Time | 2.0 minutes per pump stroke (100 mL) | | |
| Color Change | Blue → Yellow | | |
| Shelf Life | 2 years | | |
| Storage condition | Below 10°C (50°F) | | |
| Calibration condition | Calibrated at 20°C (68°F) and 50% RH. | | |
| Reaction Principle | SO ₂ + BaCl ₂ + H ₂ O → BaSO ₃ + 2HCl HCl + Base → Chloride | | |
| Relative standard deviation | ± 10 % | | |

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Possible Interferences:

| Compound | Concentration (ppm) | Interference | Colour change / Comments |
|------------------|---------------------|--------------|--------------------------|
| H ₂ S | | + | Beige colour |
| HF | | + | Ring |
| NO | | + | Diffuse |
| CO | 3000 | No | No effect |
| NH ₃ | 300 | No | No effect |

Correction for Environmental Parameters:

| | |
|-------------------|--|
| Temperature | Not necessary between 0 - 40°C (32 - 104°F). |
| Relative humidity | Not necessary between 10 - 90 %. |



Manufactured By: Uniphos Envirotronic Pvt. Ltd.
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