

Information Data Sheet

Detector Tube SO2-5

Part No. (US): 497662

Part No. D5085813

1. Application

Detection of sulfur dioxide (SO₂) in air or in technical gases.

2. Detector Tube Sampling Pump

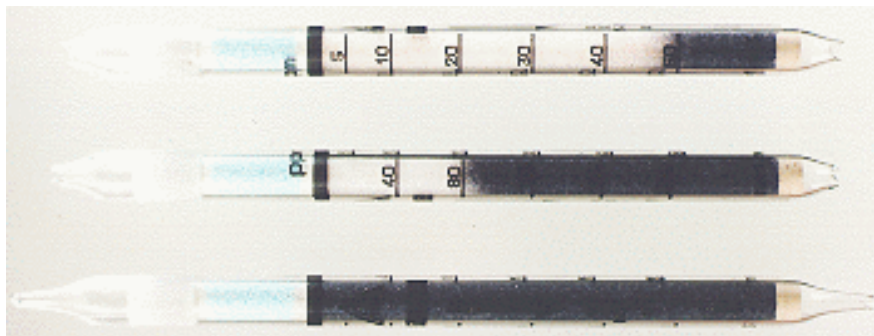
KWIK DRAW (formerly MSA AUER) Gas-Tester[®] IIH, Gas-Tester[®] I / ThumbPump[™]-Sampler, Toximeter[®] II, Uniphos Kwik-Draw[™]-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

3. Measuring Range

40 ppm ... 200 ppm sulfur dioxide at n=1 (1 stroke).
5 ppm ... 50 ppm sulfur dioxide at n=3 (3 strokes).

4. Chemical Reaction and Color Change

Reaction of sulfur dioxide with iodine. Iodine will be reduced to iodide.
Color change: violet → white.



5. Ambient Conditions During Sampling

Detector tubes can be used between 10 °C and 30 °C (50 °F and 86 °F) and between 10 % rh (0.9 g/m³ at 10 °C [50 °F]) and 90 % rh (27 g/m³ at 30 °C [86 °F]).

6. Interferences and Cross Sensitivities

- a) No interference from:
 - hydrogen, methane, ethane, propane, butanes, carbon monoxide, carbon dioxide.
 - higher saturated hydrocarbons (e.g. hexanes, octanes), aromatic hydrocarbons (e.g. benzene) up to 1000 ppm.
 - hydrogen sulfide up to 200 ppm. Hydrogen sulfide will be retained by the protective layer changing its color (light blue to brown). Do not use the detector tube if protective layer has totally change its color.
 - hydrogen chloride up to 50 ppm.
- b) Chlorine, ammonia, nitrogen dioxide, olefinic hydrocarbons (e.g. ethylene) are not indicated but possibly will shorten indication stain of sulfur dioxide even when concentrations correspond to the measuring range of detector tube. .

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