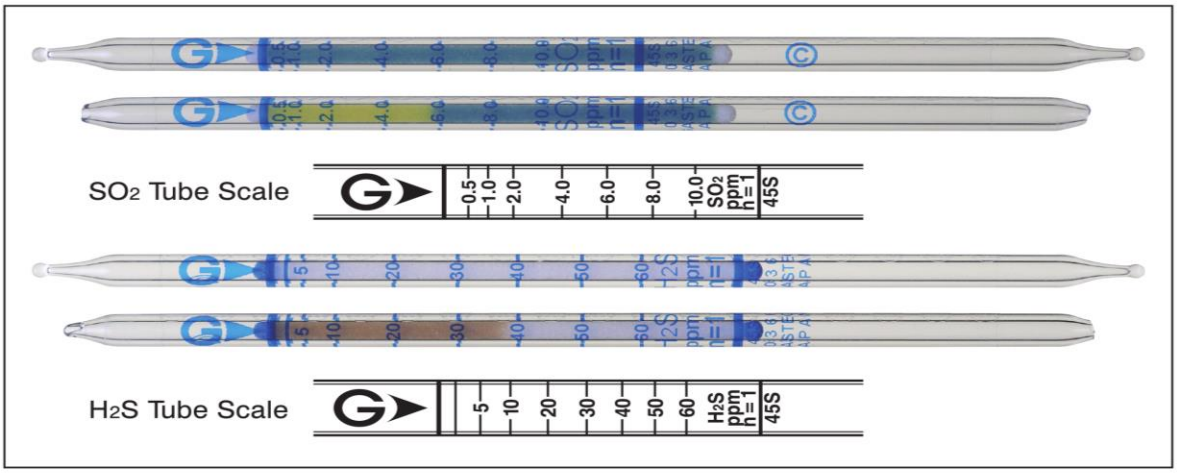
wiserise marine

Hydrogen Sulphide & Sulphur Dioxide H2S & SO2

Part No.:45S

Hydrogen Sulphide & Sulphur Dioxide H_2S & SO_2 (separate quantification) No.45S



When used, these tubes are to be connected. See page 2-3.

Performance H_2S tube : The minimum scale value (2.5ppm) is not printed on the tube, but only the scale line is printed.

Detector tube	SO_2 tube	H_2S tube	SO_2 tube	H_2S tube	SO_2 tube	H_2S tube
Measuring range (ppm)	0.25 to 0.5	1.25 to 2.5	0.5 to 10	(2.5) to 60	10 to 20	60 to 120
Number of pump strokes	2 (200 mL)		1 (100 mL)		1/2 (50 mL)	
Correction factor	1/2		1		2	
Sampling time	4 min		2 min		1 min	

Detecting limit : SO_2/H_2S tubes : 0.05 ppm (2 pump strokes)
Colour change : SO_2 tube : Yellowish green → Yellow
H_2S tube : White → Brown
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction not used
Relative humidity 20 to 80 % correction not used
Relative standard deviation : SO_2 tube : 10 % (for 0.5 to 2 ppm), 5 % (for 2 to 10 ppm)
H_2S tube : 10 % (for 2.5 to 20 ppm), 5 % (for 20 to 60 ppm)
Tube quantity and number of tests per box : 10 tubes for 5 tests
Shelf life : 36 months

Reaction principle

SO_2 tube : $SO_2 + BaCl_2 + H_2O \rightarrow BaSO_3 + 2HCl$ $\quad HCl + Base \rightarrow Chloride$
H_2S tube : $H_2S + Pb(CH_3COO)_2 \rightarrow PbS + 2CH_3COOH$

Possible coexisting substances and their interferences

SO_2 tube

Substance	Concentration	Interference	Changes colour by itself to
Nitrogen dioxide	≧ 5ppm	+	Pale purple
Carbon monoxide, Nitric oxide		No	No

H_2S tube

Substance	Concentration	Interference	Changes colour by itself to
Mercaptans		No	No

Calibration gas generation

Permeation tube method

Special note

When used, connect the SO_2 tube and the H_2S tube (with both ends broken off).
This twin tube can measure SO_2 and H_2S simultaneously.

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