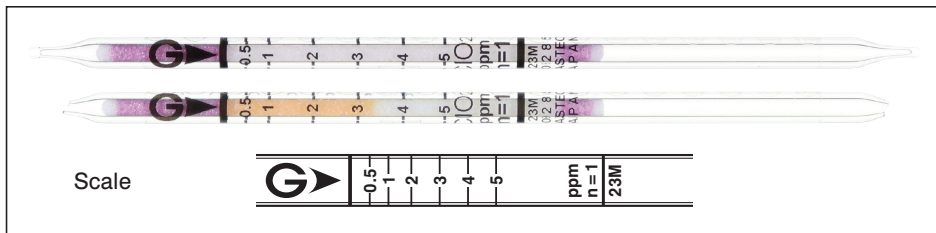


Chlorine Dioxide ClO_2

No.23M



Performance

Measuring range	0.1 to 0.5 ppm	0.5 to 5 ppm	5 to 10 ppm
Number of pump strokes	2 to 5 (200 to 500mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	1/2 to 1/5	1	2
Sampling time	2 to 5 min	1 min	30 sec
Detecting limit :	0.05 ppm (5 pump strokes)		
Colour change :	White → Pale pink		
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction not used Relative humidity 0 to 90 % correction not used		
Relative standard deviation :	10 % (for 0.5 to 2 ppm) , 5 % (for 2 to 5 ppm)		
Tube quantity and number of tests per box :	10 tubes for 10 tests		
Shelf life :	36 months		

Reaction principle

$\text{ClO}_2 + 3, 3', 5, 5'$ -Tetramethylbenzidine → Pale pink product

Possible coexisting substances and their interferences

Substance	Concentration:	Interference	Changes colour by itself to
Nitric oxide		+	Pale pink
Ozone		+	Pale pink
Nitrogen dioxide		+	Pale pink
Chlorine		+	Pale pink
Bromine, Iodine		+	Pale pink

Calibration gas generation

Permeation tube method