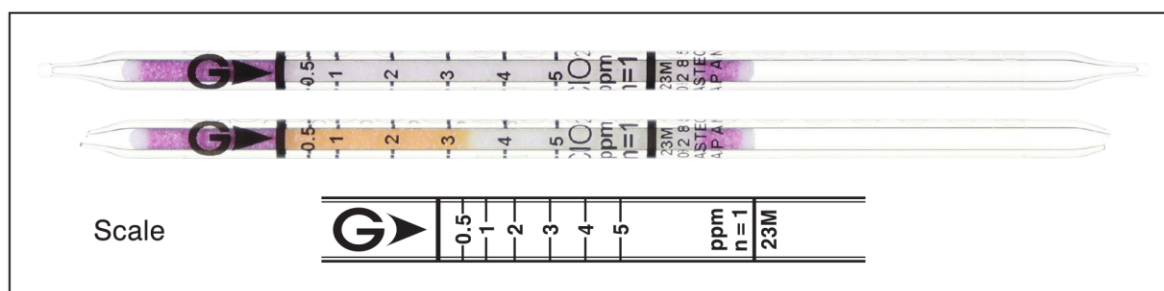




Chlorine Dioxide ClO₂

Part No.:23M

Chlorine Dioxide ClO₂ 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

ClO₂ + 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