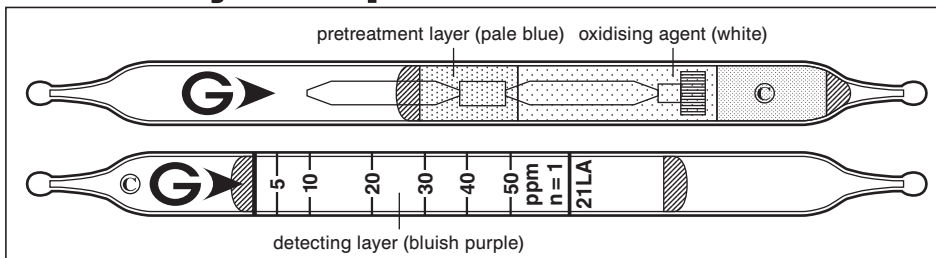


Carbonyl Sulphide COS

No.21LA



Performance

When used, these tubes are to be connected.

Measuring range	2 to 5 ppm	5 to 50 ppm	50 to 125 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	0.4	1	2.5
Sampling time	6 min	3 min	1.5 min

Detecting limit : 0.8 ppm (2 pump strokes)

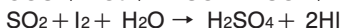
Colour change : Bluish purple → White

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 5 to 10 ppm), 5 % (for 10 to 50 ppm)

Shelf life : 2 years (in the refrigerator)

Reaction principle



Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to	
Carbon disulphide		+	} White	
Sulphur dioxide		+		
Carbon monoxide	≧ 500 ppm	Black		Black at 500ppm
Nitrogen dioxide	≧ 2 ppm	+		Brown at 2ppm
Butane, Propane	≧ 10 %	No	Black at the entrance of the detecting layer	
Carbon dioxide		No	No	
Hydrogen sulphide	≧ 1000 ppm	No effect at 1 ppm stroke	※	

※If the primary tube is totally discolored, the analyser tube will be discolored white due to the effect of hydrogen sulphide.

Calibration gas generation

High pressure gas cylinder method