

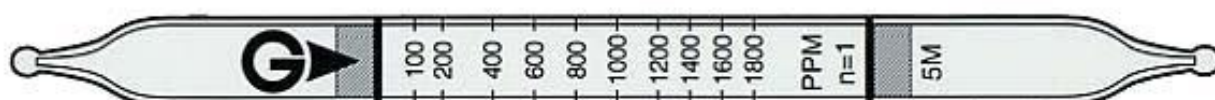


The people with the solutions that protect you and your environment everyday

Gastec Tube Datasheet

Sulphur Dioxide SO₂

NO.GAS5M



Performance

Measuring Range	20 to 100ppm	100 to 1800 ppm	1800 to 3600 ppm
Number of Pump Strokes	4	1	1/2
Correction Factor	1/5	1	2
Sampling Time	45 seconds per pump stroke		
Detecting Limit	4 ppm (n=4)		
Colour Change	Purple → Yellow		
Reaction Principle	$\text{SO}_2 + \text{BaCl}_2 + \text{H}_2\text{O} \longrightarrow \text{BaSO}_3 + 2\text{HCl}$ $\text{HCl} + \text{Base} \longrightarrow \text{Chloride}$		
Coefficient of Variation	10% (for 100 to 600 ppm), 5% (for 600 to 1800 ppm)		
Shelf Life	Up to 3 Years		
Corrections for temperature & humidity	Temperature correction is necessary		
Store the tubes at cool and dark place.			

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Carbon Monoxide, Nitric Oxide	-	No effect	No discoloration
Carbon Dioxide	-	No effect	No discoloration
Nitrogen Dioxide	≥1/10	Plus error	Produces white stain at ≥600 ppm or higher
Hydrogen Sulphide	≥10 times	Minus error	No discoloration

Calibration gas generation High pressure gas cylinder method

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