

Technical Data Sheet : TDS 5

DIF 600 RTU – SULPHUR DIOXIDE

This tube is designed for passively monitoring gaseous airborne Sulphur Dioxide



Description : Fluorinated Ethylene Polymer Tube fitted with purple and white thermoplastic rubber caps. The coloured cap contains a Potassium Hydroxide absorbent . A one micron porosity filter is fitted to the white cap to prevent the ingress of particulates loaded with sulphur i.e. diesel fumes. The concentrations of Sulphate ions chemically adsorbed are quantitatively determined by Ion Chromatography with reference to a calibration curve derived from the analysis of standard sulphate solutions.

Suitable for carrying out spatial or localized assessments for SO₂ in ambient air , workplace or industrial monitoring. Tube Dimensions : 71.0mm length x 11.0mm internal diameter

Recommended Exposure Periods : 1 –4 weeks

Uptake Rate : 0.95cm³ hr⁻¹

Air Velocity : Tube fitted with filter therefore negligible influence

Storage : Store in a dark, cool environment preferably between 5-10 degrees centigrade

Use By Date : 12 weeks from preparation date

Desorption Efficiency : d = 0.99 (determined using N.I.S.T. Standard Analytes)

Analytical Expanded Measurement Uncertainty : +/- 6. 9%

L.O.D. : 0. 5 ppb over a 2 week exposure period

Working Range : 4 – 200ugm³

Relevant Standards : BS EN 13528 Parts 1-3 : 2002/3 BS EN 838 :1996

Special Factors : Potential interference from aerosol particles containing high levels of sulphur