

Technical Data Sheet : TDS 6

DIF 300 RTU – OZONE

This tube is designed for passively monitoring gaseous molecules of Ozone



Description : Fluorinated Ethylene Polymer Tube fitted with black and white thermoplastic rubber caps. The coloured cap contains the absorbent . A one micron porosity filter is fitted to the white cap to prevent the ingress of airborne particulate nitrate .The concentrations of Nitrate ions chemically adsorbed are quantitatively determined by Ion Chromatography with reference to a calibration curve derived from the analysis of standard nitrate solutions.

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

Recommended Exposure Periods : 2 –4 weeks

Uptake Rate : $0.93\text{cm}^3 \text{hr}^{-1}$

Air Velocity : Tube fitted with filter therefore negligible influence

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

Shelf Life : 12 weeks from preparation date

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

Analytical Expanded Measurement Uncertainty : $\pm 6.8\%$

L.O.D. : 1.42 ppb over a 2 week exposure period

Working Range : $6.8 - >200\mu\text{g}/\text{m}^3$

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 nitrate