



Easily Measure Sulfuric Acid Mist

SO₃ Sorbent Traps

Applications

- ▶ Coal-Fired Power Plants
- ▶ Sulfuric Acid Plants
- ▶ Pulp and Paper Plants
- ▶ Others

Why You Should Measure SO₃

- ▶ Very Corrosive
- ▶ Competes with Hg for Active Sites on Activated Carbon (ACI)
- ▶ Contributes to Ammonium Bisulfate (ABS) Formation on SCR Catalyst, Inhibiting Denitration
- ▶ Contributes to Air Preheater (APH) Fouling Issues
- ▶ Leads to Blue Plume Formation

Simple Alternative to Cumbersome Current Method 8A

- ▶ Sampling impinger trains typically requires a team of technicians and significant mobilization time.
- ▶ Sampling locations are difficult to access and unforgiving to the specialty glassware used.
- ▶ Impinger solutions may consist of hazardous materials which must be transferred and containerized on-site.

Avoid these issues by using sorbent traps.

YEARS OF R&D. FIELD TESTED. PROVEN.



Measuring Sulfuric Acid Mist

Ohio Lumex SO₃ Sorbent Trap Benefits

Sorbent Traps are Versatile

- ▶ Small & Lightweight
- ▶ Non-Hazardous
- ▶ Disposable

Sorbent Traps Outperform Other Methods

- ▶ Ease of Use
- ▶ Data Quality
- ▶ Reduced Mobilization & Labor Costs

Patent-Pending Sampling System

- ▶ Ensures Successful Measurements
- ▶ In-line Thermocouple for Accurate Temp Control
- ▶ Maintains Precise Control of Flow Rate

Suitable For

- ▶ SCR Outlet
- ▶ ESP Outlet (recommend isokinetic sampling)
- ▶ Stack (recommend isokinetic sampling)



Quality Verified Using EPA Method 30B QC Performance Criteria

- ▶ Breakthrough, Pair Agreement, Spike Recovery, & Various Sampling/Analytical Checks

Ohio Lumex Laboratory: The Only Lab You Should Trust

- ▶ Developed Proprietary Sample Preparation Method
- ▶ Measure Sulfate in Sorbent Matrix via Ion Chromatography
- ▶ Can Quantify Sub-PPM Concentrations of SO₃ with High Precision
- ▶ Developing Viable Alternatives that can be Performed On-Site



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