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Preloaded Coated Filters

Cat. No. 225-9013

Operating Instructions

SKC coated filters are shipped preloaded in the cassettes with end plugs and shrink bands in place. No assembly is required; they are ready to use.

Method & Chemical: ASTM D5836 for 2,4-TDI and 2,6-TDI. OSHA 42* for HDI, 2,4-TDI, and 2,6-TDI. OSHA 47 for MDI

** OSHA Method 42 specifies a filter loading of 0.1 mg of 1-(2-pyridyl) piperazine. OSHA 47 and ASTM D5836 specify a filter loading of 1 mg of 1-(2-Pyridyl) piperazine; however, Coated Filter 225-9002 (loading of 2 mg to increase stability and shelf-life of filters) is acceptable for both sampling methods.*

Filter & Coating†: Glass fiber filter and cellulose support pad coated with 1-(2-pyridyl) piperazine) piperazine loaded into a three-piece 37-mm cassette. Use in open-face sampling configuration.

Prior to Sampling: Store at ≤ 39.2 F (4 C) for up to 3 months.

Sample Stability: Submit extracted samples to a laboratory as soon as possible after sampling. Store at ≤ 39.2 F (4 C) for up to one week if delay is unavoidable.

† Custom order due to very limited shelf-life.

For information on other available coated filters, go to www.skcinc.com.

How to Use SKC Preloaded Coated Filters



Do not expose coated filters to high temperatures or prolonged periods in indirect sunlight.



Ensure that filter cassettes are at room temperature before sampling.

1. Select one coated filter cassette for calibrating the flow rate. A red plug secures the inlet, which is clearly marked “inlet,” and a blue plug secures the outlet. Set up the sampling train for calibration with the representative filter cassette in line. For “closed-face” sampling, remove the plugs and connect the cassette to the sampling train. For “open-face” sampling, remove the outlet plug and the cassette inlet section and then connect the cassette to the sampling train. For details on setting up a sampling train, refer to the SKC Sample Setup Guide “Sampling Train – Filters” at www.skcinc.com/knowledgecenter.
2. Calibrate the pump to the desired flow rate using a calibrator.
3. Replace the cassette used for calibration with a fresh coated filter cassette for sample collection. Attach the cassette to a worker’s collar, as close to the breathing zone as possible, by using a filter cassette holder SKC Cat. No. 225-1. Sample for the specified time interval and record the time.
4. Remove the filter cassette at the end of the specified sampling period and replace both end plugs (and the inlet if necessary). Recheck the flow rate using the same cassette and calibrator used for calibration in Step 2 to ensure that the flow rate has not changed by more than 5%.
5. Don disposable gloves. Remove cassette inlet section and use clean forceps to remove filter from cassette. Place filter in a glass vial containing field extraction solution following the procedure in Appendix B of OSHA Directive CPL 03-00-017 (National Emphasis Program – Occupational Exposure to Isocyanates) at www.osha.gov/sites/default/files/enforcement/directives/CPL_03-00-017.pdf.
6. Submit extracted samples to a laboratory as soon as possible after sampling. Store at ≤ 39.2 F (4 C) for up to one week if delay is unavoidable. Appropriately package and ship samples, blanks, and all pertinent data to a laboratory for analysis. Refrigerated shipment is not required. Follow all applicable hazardous materials shipping restrictions and requirements. See *Appendix B of OSHA Directive CPL 03- 00-017 for details.*

SKC Limited Warranty and Return Policy

SKC products are subject to the SKC Limited Warranty and Return Policy, which provides SKC’s sole liability and the buyer’s exclusive remedy. To view the complete SKC Limited Warranty and Return Policy, go to skcinc.com/warranty.