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Preloaded Filters

Cat. No. 225-9033

Operating Instructions

SKC 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: NIOSH 7908 for sulfuric acid and phosphoric acid

Filter & Coating: One uncoated quartz filter (Tissuquartz). Two-piece 37-mm cassette. Closed-face sampling configuration

Prior to Sampling: Store at 71.6 F (22 C) for up to 2 years.

Sample Stability: Store samples at 68 F (20 C) for up to 7 days and at \leq 39.2 F (4 C) thereafter up to 28 days.

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

How to Use SKC Preloaded Filters

1. Select one filter cassette for calibrating the flow rate. A red plug secures the inlet, which is clearly marked “inlet,” and a pink 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 – Cyclones” 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 with PTFE-coated tweezers and place it in a 10-ml screw-cap plastic vessel. With about 2 ml eluent (extraction) solution (0.0027 M Na_2CO_3 /0.0003 M NaHCO_3), rinse material from the inside surfaces of the cassette into the vessel. Add eluent solution into the vessel until a final volume of 5 ml is reached. Replace both end plugs (and the inlet if necessary). Recheck the flow rate using the same cassette and flowmeter used for calibration in Step 2 to ensure that the flow rate has not changed by more than 5%.
5. *See Sample Stability on reverse side for sample storage.* Appropriately package samples, blanks, and all pertinent data to send to a laboratory for analysis.

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.