



Operating Instructions

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Preloaded Coated Filters Cat. No. 225-9032

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 and Chemical: NIOSH 7907 for hydrogen chloride, hydrogen bromide, and nitric acid

Filter and Coating: 2 quartz filters (R-100), one uncoated quartz pre-filter and one coated quartz with sodium carbonate. Three-piece 37-mm cassette. Closed-face sampling configuration

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

Sample Stability: Store samples at 71.6 F (22 C) for up to 7 days and at ≤ 39.2 F (4 C) for longer storage up to 28 days.

How to Use the SKC Preloaded Coated Filters

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" (SKC Publication 1922).
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 pre-filter portion of the filter cassette at the end of the specified sampling period and rinse with 2 ml eluent (extraction) solution (3.1 mM Na_2CO_3 /0.35 mM NaHCO_3) and bring to final volume of 5 mL. 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. See *Sample Stability on reverse side for sample storage*. Appropriately package samples, blanks, and all pertinent data for shipment to a lab 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 <http://www.skcinc.com/warranty>.

**For information on other available
coated filters, request SKC Publication 1219.**