



## SKC Respirable Dust Cyclones

### Listed in OSHA and MSHA Silica Rules

SKC offers two respirable dust cyclones to meet the performance criteria in the OSHA Final Silica Rule<sup>1</sup> (pages 16439, 16441, and 16453). The Aluminum Cyclone is listed in the MSHA Silica Rule<sup>2</sup> (search "Aluminum Cyclone"). Both cyclones are designed for superior performance compared to other cyclones on the market.



**SKC Aluminum Cyclone** meets ISO 7708/CEN criteria at a flow rate of 2.5 L/min. See performance data relative to the ISO/CEN standard adopted by OSHA, MSHA, ACGIH, and other international agencies in Reference 3 at bottom left.



**SKC GS-3 Cyclone** meets ISO 7708/CEN criteria at a flow rate of 2.75 L/min. See performance data relative to the ISO/CEN criteria in Reference 4 at bottom left.

#### Respirable Dust Cyclone Features/Advantages

- Conductive plastic or aluminum construction eliminates electrostatic effects
- Used with an open-face 3-piece cassette for even particle deposition on the filter
- Available in 25 or 37 mm
- Aluminum Cyclone has an easy-to-use calibration adapter accessory
- GS-3 Cyclone features three inlet slits that eliminate the ambient wind speed and orientation bias found with the 10-mm nylon cyclone

#### Ordering

Sampler		Cat. No.
Aluminum Cyclone with grit pot, requires a 3-piece cassette	25 mm	225-01-01
	37 mm	225-01-02
GS-3 Cyclone with bowl adapter, cassette adapter, and grit pot, requires a 3-piece cassette	25 mm	225-103
	37 mm	225-100

Sampling Media - 37 mm (see www.skinc.com for 25 mm)		Cat. No.
PVC Filters, GLA-5000, 37 mm, 5.0-µm pore size, with supports	pk/100	225-5-37-P
SureSeal Cassette Blanks, 37 mm, 3 pieces, clear styrene; require SureSeal Cassette Opener accessory	pk/50	225-3050LF
Preloaded PVC Filters, GLA-5000, 37 mm, 5.0-µm pore size with supports, in 3-piece clear styrene cassette, banded; require SureSeal Cassette Opener accessory	pk/50	225-803
Preweighed PVC Filters in Cassettes, GLA-5000, 37 mm, 5.0-µm pore size filter with supports, preweighed, 5 decimal; in a 3-piece clear styrene cassette, banded	pk/10	225-8208A
	pk/50	225-8209A

Accessories		Cat. No.
Calibration Adapter for Aluminum Cyclone, 25/37 mm		225-01-03
Standard Calibration Jar for GS-3 Cyclone, 25/37mm		225-111
Filter Cassette/Cyclone Holder, 25/37 mm		225-1
SureSeal Cassette Opener, 25/37 mm		225-13-5B

Visit [www.skinc.com](http://www.skinc.com) for more information.

## PERFORMANCE PROFILE

#### Flow Rate:

Aluminum Cyclone: 2.5 L/min  
GS-3 Cyclone: 2.75 L/min

#### Sampling Media:

Requires a 25 or 37-mm, 3-piece cassette loaded with 5.0-µm PVC filter

#### Recommended Sampling Pumps/Flowmeter:

AirChek Touch Series Pumps  
chek-mate Medium Flow Flowmeter  
See pages 6 and 7.

#### References

- <sup>1</sup> OSHA Final Silica Rule, 29 CFR 1926.1153, 81 FR 16875-16882, March 25, 2016; 84 FR 21597, May 14, 2019, <https://www.osha.gov/laws-regs/regulations/standardnumber/1926/1926.1153>
- <sup>2</sup> Dept. of Labor Mine Safety and Health Administration 30 CFR Parts 56, 57, 60, 70, 71, 72, 75, and 90, Docket No. MSHA-2023-0001] RIN 1219-AB36 MSHA Silica Rule: Lowering Miners' Exposure to Respirable Crystalline Silica and Improving Respiratory Protection, <https://bit.ly/3Q6j4fl>
- <sup>3</sup> Harper, M., et al., "Calibration of the SKC, Inc. Aluminum Cyclone ..." Jnl. of Aer. Sci., Vol. 29, (Suppl. 1), 1998, pp. S347-S348, <https://doi.org/b958xd>
- <sup>4</sup> Gautam, M. and Sreenath, A., "Performance of a Respirable Multi-inlet Cyclone," Jnl. of Aer. Sci., Vol. 28, No. 7, 1997, pp. 1265-1281 (<https://doi.org/fhsgrz>)