

TECH NOTES

SKC Respirable Dust Cyclone Performance Guide



Optimal flow rates to meet performance criteria



SKC Aluminum Cyclone
Cat. Nos. 225-01-01, -01-02
2.5 L/min for 4- μ m 50% cut-point

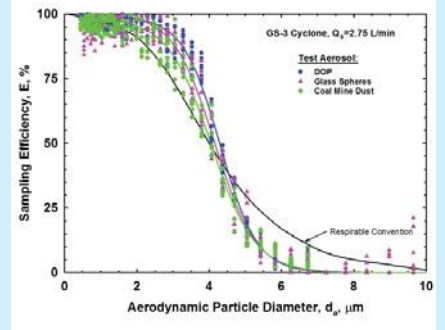
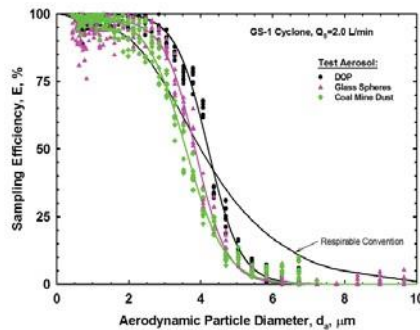
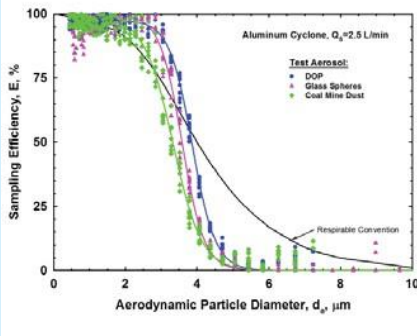


SKC GS-1 Cyclone
Cat. No. 225-105
2 L/min for 4 μ m 50% cut-point
3 L/min for 3.5- μ m cut-point
1.7 or 2 L/min with DPM cassette



SKC GS-3 Cyclone
Cat. Nos. 225-100, -103
2.75 L/min for 4- μ m cut-point

Collection efficiency relative to ISO 7708/CEN criteria in OSHA silica rule and ACGIH® TLV®s



Advantages

- Conductive aluminum eliminates electrostatic effects
- Specified in NIOSH methods
- Meets criteria in OSHA silica rule
- Suitable for ACGIH respirable TLVs
- Not a spark hazard for underground use
- Meets MSHA specifications for silica standard and DPM sampling
- Meets ISO 7708/CEN criteria and OSHA silica rule; suitable for ACGIH respirable TLVs
- Unique design overcomes disadvantages of 10-mm nylon cyclone
- Meets OSHA criteria
- Not a spark hazard for underground mine use

References available

Journal of Aerosol Science 09/1998; 29
<http://doi.org/b958xd>
Reprints are available from SKC.

NIOSH Method 7500
www.cdc.gov/niosh/docs/2003-154/pdfs/7500.pdf

NIOSH Method 0600
www.cdc.gov/niosh/docs/2003-154/pdfs/0600.pdf

OSHA Final Rule on Respirable Crystalline Silica, www.osha.gov/silica/

AIHA Journal 1995; 56,
<http://doi.org/bdjrmv>

AIHce Presentation 191, 2003
<https://bit.ly/3Gqx11C>
(PowerPoint presentation)

AIHA Journal 1995; 56,
<http://doi.org/bdjrmv>

Journal of Aerosol Science
07/1997; 28 pp.
<http://doi.org/fhsgrz>

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(PowerPoint presentation)

OSHA Final Rule on Respirable Crystalline Silica, www.osha.gov/silica/

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