SKC Respirable Dust Cyclone Performance Guide

Publication 1519 Rev 1809

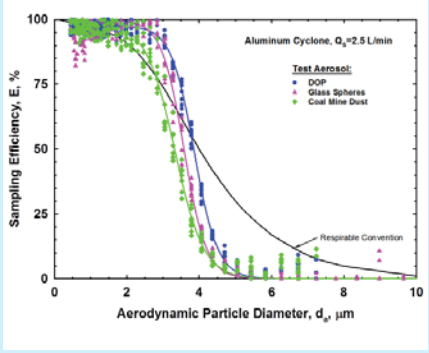
Optimal flow rates to meet performance criteria

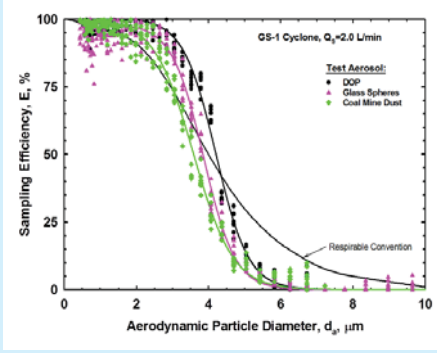
SKC Aluminum Cyclone
Cat. Nos. 225-01-01, -01-02
2.5 L/min for **4-µm 50% cut-point**

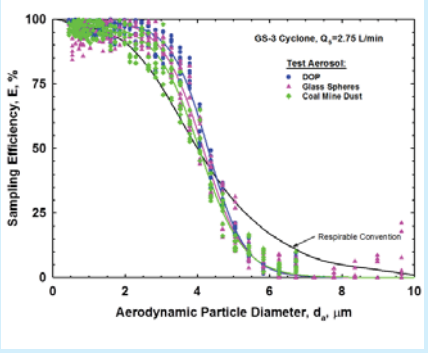
SKC GS-1 Cyclone
Cat. No. 225-105
2 L/min for **4 µm 50% cut-point**
3 L/min for 3.5-µm cut-point
1.7 or 2 L/min with DPM cassette

SKC GS-3 Cyclone
Cat. Nos. 225-100, -103
2.75 L/min for **4-µm 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,
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07/1997; 28 pp.
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OSHA Final Rule on Respirable Crystalline Silica, www.osha.gov/silica/

SKC Inc. 724-941-9701 **SKC-West** 714-992-2780 **SKC Gulf Coast** 281-859-8050 **SKC South** 434-352-7149
www.skcinc.com