



environmental monitoring  
s y s t e m s

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# Certificate of Quality

## Asbestos PCM Sampling Cassettes-25mm

**PCM Lot # 20170803 - 0.8um**

OSHA Method ID-160 & NIOSH Method 7400  
(Phase Contrast Microscopy = PCM)

- Cleared 0.8 MCE filter with Acetone & Triacetin - Method 7400 (Quickfix)
  - o Filter cleared with smooth (non-grainy) background allowing for accurate analysis.
  - o Time to Clear: Approximately 5 seconds
- Filter analyzed for Background Fibers
  - o Fiber count from independent Laboratory: 0.0 Fibers/100 Fields
    - ◇ Filter meets ID-160 of up to 4 fibers per 100 fields
    - ◇ Filter meets NIOSH Method 7400 of up to 5 fibers per 100 fields
- 50 mm extension cowl conductivity checked:
  - o Conductivity equal to range: 10.2-10.6 Conductive per resin supplier
- Effective filter collection area checked for conformity of +/- 385 mm<sup>2</sup> :
  - o Average diameter of 100 cassettes: +/- 22.22 mm or approximately 385mm<sup>2</sup>

■ Leak Free Cassettes	Open LPM	Inlet/Cowl/Outlet (AVG) LPM
o Rotary Vane	32.98	17.57
o Diaphragm	28.91	16.55
o Megalite	31.13	12.00
o ems e-PRO HD	23.71	15.89

- Product manufactured in the USA utilizing good manufacturing standards

Approved: James R. Tucker Date: 8/3/2017  
 James R. Tucker, Ph.D.  
 EMS COO & VP Technology