

# Certificate of Quality

## Asbestos PCM & TEM Sampling Cassettes

**PCM Lot # 20090812**

OSHA Method ID-160 & NIOSH Method 7400  
(Phase Contrast Microscopy = PCM)  
or NIOSH Method 7402  
(Transmission Electron Microscopy = TEM)

- Clear with Acetone & Triacetin - Method 7400 (Quickfix)
  - o Filter materials Clear with smooth (non-grainy) background for accurate analysis.
  - o Time to Clear (seconds) < 5 Seconds
- Background Fibers PCM 0.0 Fibers/100 Field and/or TEM NA
  - o Up to 4 fibers per 100 fields (ID-160) or
  - o Up to 5 fibers per 100 fields (NIOSH 7400 & NIOSH 7402)
- Conductive polymers (cowl) Per Resin Supplier
- Specify a consistent effective collection area of 385 +/- 5 mm<sup>2</sup>
  - o (21.998 mm<diameter>22.283 mm collection area)
  - o Diameter AVG(100) = 22.22 = 387.87 mm<sup>2</sup>
- Leak Free Cassettes

	Open LPM	Inlet/Cowl/Outlet (AVG) LPM
o Rotary Vane	<u>36.86</u>	<u>19.24</u>
o Diaphragm	<u>26.68</u>	<u>16.29</u>
o Megalite	<u>38.39</u>	<u>13.67</u>

**PCM Lot # 20090812 - 0.8 um Filter Membrane**

Approved: \_\_\_\_\_

*James R. Tucker*

Date: 08/26/2009

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EMS COO & VP Technology



environmental monitoring  
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