



environmental monitoring  
s y s t e m s

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# Certificate of Quality

## Asbestos TEM Sampling Cassettes - 25 mm

### TEM Lot # 20110726 - 0.45 + 5.0 Filters

NIOSH Method 7402  
(Transmission Electron Microscopy = TEM)

- Cleared 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 7402 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: +/- 22.16 mm or approximately 385mm<sup>2</sup>

■ Leak Free Cassettes	Open LPM	Inlet/Cowl/Outlet (AVG) LPM
o Rotary Vane	<u>32.03</u>	<u>12.57</u>
o Diaphragm	<u>27.66</u>	<u>12.31</u>
o Megalite	<u>32.1</u>	<u>9.639</u>

- Product manufactured in the USA utilizing good manufacturing standards

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

Date: July 26, 2011

James R. Tucker, Ph.D.  
EMS COO & VP Technology