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Certificate of Quality

Asbestos TEM Sampling Cassettes - 25 mm

TEM Lot # **20091201** - 0.45 um + 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 mm² :
 - o Average diameter of 100 cassettes: +/- 22.16 mm or approximately 385mm²

■ Leak Free Cassettes	Open LPM	Inlet/Cowl/Outlet (AVG) LPM
o Rotary Vane	<u>34.35</u>	<u>12.65</u>
o Diaphragm	<u>26.66</u>	<u>10.93</u>
o Megalite	<u>39.21</u>	<u>7.42</u>

- Product manufactured in the USA utilizing good manufacturing standards

Approved: _____

Date: December 1, 2009

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