



environmental monitoring  
s y s t e m s

Environmental Monitoring Systems  
3864 Leeds Avenue  
Charleston, SC 29405  
1.800.293.3003  
FAX 866.724.5702  
www.emssales.net  
info@emssales.net

# Certificate of Quality

## Asbestos TEM Sampling Cassettes

TEM Lot # 20221201 - 0.45 + 5.0 Filters

NIOSH Method 7402

(Transmission Electron Microscopy = TEM)

- 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 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 Megalite	<u>31</u>	<u>7.68</u>
o ems E-PRO HD	<u>23</u>	<u>11.48</u>
o ems E-Maxx	<u>29.2</u>	<u>6.45</u>

- Product manufactured in the USA utilizing good manufacturing standards

Approved: James R. Tucker Date: 12/7/2022  
 James R. Tucker, Ph.D.  
 EMS COO & VP Technology