



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 #20160726 - 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 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>30.96</u>	<u>13.35</u>
o Diaphragm	<u>28.66</u>	<u>12.67</u>
o Megalite	<u>20.45</u>	<u>8.24</u>
o ems e-PRO HD	<u>26.77</u>	<u>12.57</u>

- Product manufactured in the USA utilizing good manufacturing standards

Approved: James R. Tucker Date: 05/25/2016

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