

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 #20180301 - 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>31.78</u> | 12.2 |
| o Diaphragm | <u>28.66</u> | <u>11.35</u> |
| o Megalite | <u>34.7</u> | <u>7.35</u> |
| o ems e-PRO HD | 23.75 | <u>11.46</u> |

■ Product manufactured in the USA utilizing good manufacturing standards

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