



HEPA Filter Certification Testing

HEPA filter certification testing is critical to several industries including semiconductor cleanrooms. It is essential that HEPA and ULPA filters are tested efficiently and correctly. QVA Test Solutions offers specialty products for the cleanroom and filter testing industry.

Polystyrene Microspheres (formerly known as Polystyrene Latex Spheres or PSL)

Microspheres are used as an aerosol challenge for filter integrity testing at the filter manufacturer and in situ cleanroom installation. Microspheres are specified where oils or oil vapor/outgassing are considered airborne molecular contamination (AMC).

The QVA Test Solutions Microsphere Stock Solution is convenient and easy to use. Simply add 50 ml of the PSL Stock Solution to 3.8 liters (one US gallon) of DI or Distilled water and then add the mixed solution to the generator. 500 ml of stock solution can make 10 gallons (38 liters) of test solution. Aerosol generation for testing individual filters is easily achieved using an ultrasonic humidifier.

Our standard solutions are composed of 0.12 μ m or 0.32 μ m (nominal diameter) polystyrene microspheres in an aqueous solution containing a fractional amount of a non-ionic surfactant to assist with stability and generation. Alternate sizes may be available upon request.

PSL Stock Solution



Features and Benefits

- PSL stock solutions can be used in off the shelf ultrasonic humidifiers.
- A wide range of particle sizes are available for various applications and test requirements.
- Can be used in place of oil based aerosol challenges

NOTE: PSL test solutions should be kept under refrigeration 2-8°C for long term storage. DO NOT ALLOW THE MATERIAL TO FREEZE!