

PRECISION

Precision Processing services Limited

Precision Processing Services Limited (PPSL) has many year's experience in cleaning filters and other process plant used in a wide variety of applications.

Testing and Inspection Operations

All Filters cleaned by PPSL are fully tested and the results compared to the "as new" technical specification published by the filter manufacturer. Some of the testing and inspection techniques employed by PPSL are described below:

The Bubble Point Test - is a test for filters and is the pressure at which the first steady stream of bubbles emerges from the largest pore in the filter. This is based on the fact that for a set of given conditions the pressure required to force an air bubble through a pore is inversely proportioned to the pore size diameter.

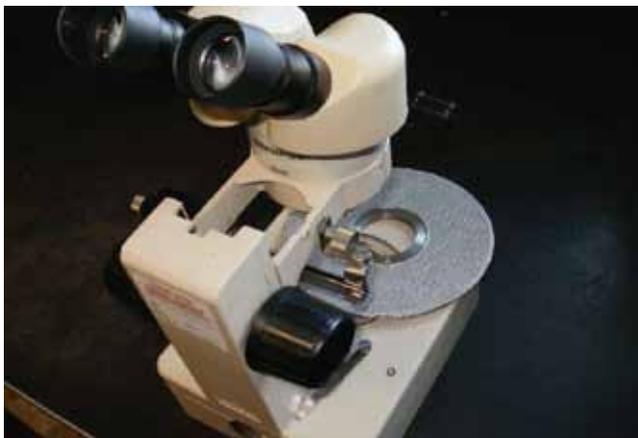


The Flow Test - is the open bubble point and is an extension of the bubble point test. The open bubble point is a relative measure of the mean pore size of a filter provided there are no other restrictions to flow or physical limitations. Since this point can vary from filter to filter and from filter media to filter media, PPSL introduced the 10LPM test several years ago which standardises the open bubble point test at an air flow of 10 litres per minute.



DP Testing - is a test for filters based on measuring the ratio of differential pressure across the filter to the flow of fluid passing through the filter. This measurement is a common factor in the specification of filters and the results obtained in this test can give an indication of the level of free flow in the filter.

Weight Check - All Filters are weighed after cleaning. This enables PPSL to compare the weight of the cleaned filter to historical data. Over time, the weight can be tracked and can be a useful factor when determining the continued integrity of the filter.



Visual Inspection - All parts processed at PPSL undergo a visual inspection regime. Parts are visually inspected both on receipt, during processing and after cleaning to look for contamination, damage and item integrity.

Bright Light/ UV Light Inspection - These inspection techniques are an extension of the routine visual inspection regime undertaken by PPSL. These inspection techniques are specific to individual requirements but add to the inspection to look for trace material on parts before release.

PPSL have been developing a new integrity test regime whereby disc - capsule filters can be fully tested following the assembly of the filter stack to ensure there is a good seal between each disk on the built stack. This provides reassurance in the built stack that seals are secure, which otherwise would have serious implications for production runs.

For more information regarding the inspection and testing of your products, or for advice on suitable test criteria specific to your process, please contact PPSL for details.

