

Preveil* ePTFE membrane ETV test results

Certified Performance

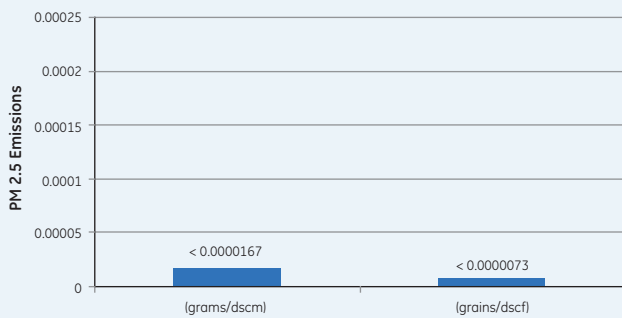
Our 22 oz/yd² fiberglass filter bags laminated with Preveil ePTFE membrane (QG061) demonstrated outstanding performance in the United States Environmental Protection Agency's (EPA) Environmental Technology Verification (ETV) Program.

ETV test results

Filtration Efficiency – PM_{2.5} Particle Filtration

Emissions for Preveil membrane laminate were so low that they were undetectable by the test equipment (<.0000167 grams/dscm). The application of Preveil membranes provides enhanced collection efficiencies capable of meeting PM_{2.5} regulations.

Outlet emissions concentration

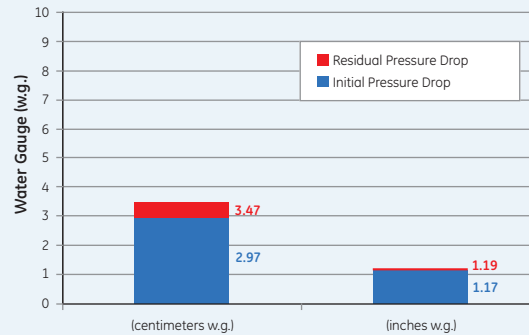


Filtration fabric tested: 22 oz./yd² fiberglass with Preveil membrane (QG061)

Differential Pressure

The residual differential pressure following testing was negligible, indicating that the membrane is void of any dust penetration. Preveil membrane operates at a more consistent pressure-drop over the life of the filters due to its ability to readily clean down.

Pressure drop



The testing included using a Filter Efficiency Media Analyzer to measure total outlet particle concentration and particulate smaller than 2.5 microns. The test dust used was aluminum oxide dust with an average mass mean diameter of 1.5 micron. Each test run on a filtration fabric consisted of a conditioning period of 10,000 rapid pulse cycles, followed by a recovery period of 30 normal pulse cycles. Immediately following the recovery period, the 6-hour testing period began in which the filter media was pulse cleaned each time the pressure drop increased to 4" w.g. The testing evaluated filtration efficiency, pressure drop, and cleaning requirements.

The GE difference

GE Energy provides both ePTFE manufacturing and lamination combined with filter and cage design and fabrication. This total component approach is critical to maximize the service life and performance of high efficiency filters.

Test information

The purpose of the EPA's ETV program is to convey objective, third party data about the performance of environmental technologies. All testing of baghouse filtration products was performed under the ETV Air Pollution Control Technology (APCT) testing program, which is operated by the Research Triangle Institute in cooperation with the EPA's National Risk Management Research Laboratory.



All EPA-ETV verification testing was performed under strict protocols, including specific requirements for testing, quality management, quality assurance, procedures for product selection, auditing of the test laboratories, and test report format, based on a modified VDI 3926 test method.



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