

Data Sheet

BHA® Preveil® Test Data

BHA Preveil Performance Data

BHA Preveil, a PTFE membrane, is an expanded microporous structure that can be applied to aramid, polyester, polypropylene, PPS, acrylic and P84 felts as well as woven fiberglass to provide high filtration efficiency, excellent cake release and greater airflows at lower energy consumption.

High Temperature Applications

Traditionally, aramid, PPS and P84 felts as well as woven glass have been the preferred fibers for filtration in such industries as incineration, co-generation, electric power, ferroalloy and cement. Today, these media can be economically enhanced with BHA Preveil to provide superior performance in high temperature and chemically-active applications.

BHA Preveil is applied to the surface of polyester or acrylic felt for continuous temperatures up to 275° and 265° F, respectively. BHA Preveil can also be applied to PPS and aramid felt for continuous temperatures up to 375° F and on woven glass fabrics and P84 felt for continuous temperatures up to 500° F.

Polypropylene and Polyester

BHA Preveil bonded to polyester and polypropylene felts has proven to be effective for many ambient temperature filtration applications. The microporous structure, chemical inertness as well as the non-stick nature of the membrane make it ideal for applications requiring ultra-high efficiency like toner. In addition, it is effective for sticky particulate like fertilizer, chemical and plastic manufacturing.

VESA Test Data

A Variable Environmental Simulation Analysis was performed by an independent laboratory to determine the efficiencies of two new membrane fabrics. The dust from a re-circulating fluidized bed boiler system known to contain a fine micron dust was selected for the challenging load.

Air-To-Cloth Ratio	6:1
Dust Loading (Grains/ACF)	10
Challenge Dust	CFB Ash
Particulate Size	80.84% is .518 micron or less
Filtration Velocity	6 ft./min.
Cleaning	Pulse
Test Duration	50 hours

Note: All candidates were allowed to condition for six hours to establish dustcake equilibrium status.

Results

The fabric candidates in terms of collection efficiency (average of final 50 hour duration) are as follows in order of decreasing performance (ΔP):

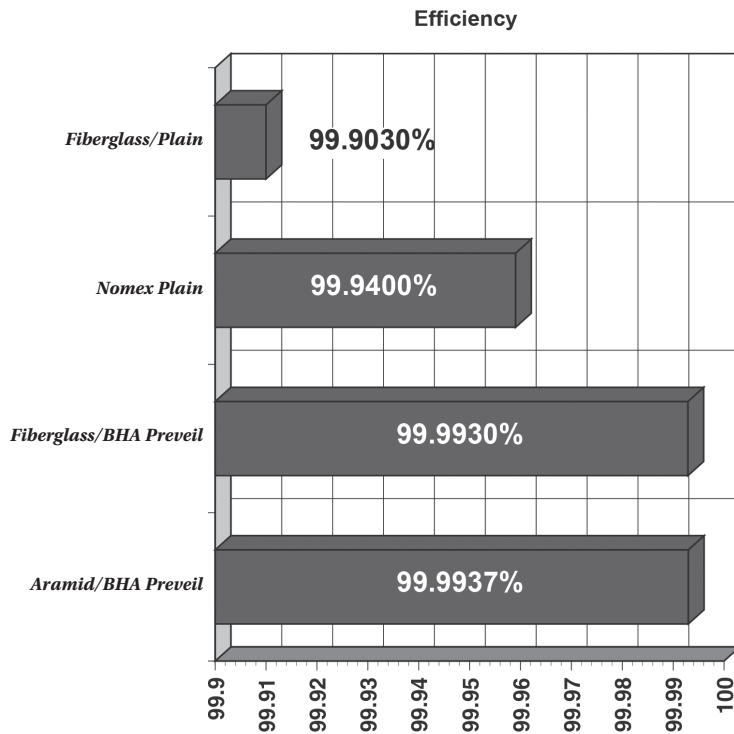
Fabric Candidate	Emissions (GNS/ACF)	ΔP in. w.c.	Efficiency
Fiberglass Plain (pulse-jet)	0.00970	4.41	99.9030%
Aramid Plain	0.00600	4.43	99.9400%
Fiberglass/BHA Preveil (pulse-jet)	0.00070	4.20	99.9930%
Aramid/BHA Preveil	0.00063	4.09	99.9937%

w.c. = water column



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Numerical values shown in this brochure are the tested values obtained under certain conditions specified by that testing method and are not applicable to all the products to be used under different conditions. These numbers serve as a preliminary guide for comparing BHA Preveil in various practical uses.

For more information call your Parker Hannifin representative toll-free at 800-821-2222.

