POLYMICRO® *SEAMLESS* FILTER BAGS

FSI's Newest Polymicro® filter Bag is constructed entirely without seams.

It is composed of continuous length microfibers which vary in diameter throughout the depth of the filter medium. This unique property develops a graded pore size distribution. Prefiltering layers are designed to capture coarse particulate, gels, fibers, and other soft-textured particles resulting in greater dirt holding capacity.

Benefits of this unique filter medium are low initial pressure drop, large dirt holding capacity, long service life, and precise particle retention.

Thermally bonded microfibers create a seamless filter bag that has exceptionally high tensile strength. This property provides superior resistance to channeling, unloading, bypass, and other forms of leakage that result from pulsating flow (i.e., water hammer or cold start).

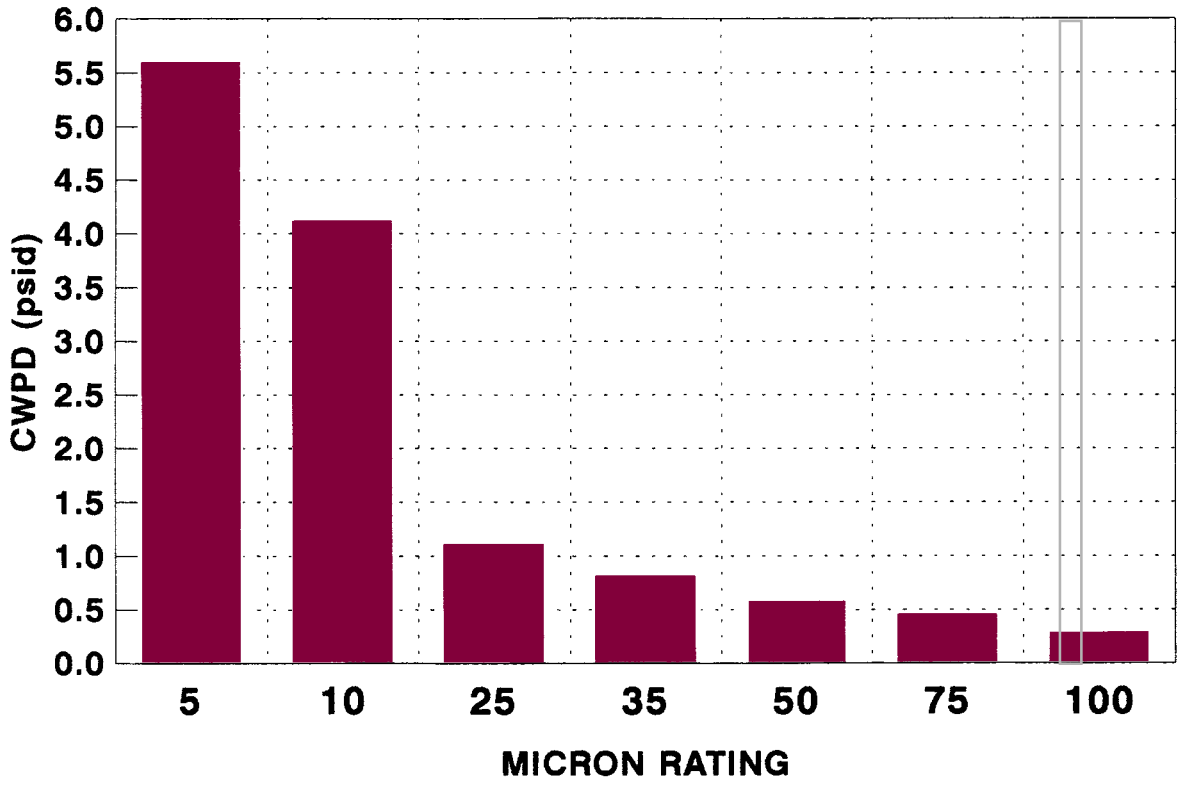
The Polymicro® seamless bag is manufactured from 100% polypropylene resin. This eliminates the need for fiber bonding agents such as resins and adhesives. Our seamless filter bag is free of foreign substances which can contaminate your process fluid.

The Polymicro® seamless filter bag is an ideal product for use in a wide variety of high purity applications including edible oil, sugar syrup, soft drinks, paints, coatings, plating solutions, inks, cosmetics, pharmaceuticals, potable water, and electronic grade water used in semiconductor manufacturing. The seamless filter bag will not cause foaming and is compliant with FDA regulations for food contact.

FSI's Polymicro® seamless filter bag is a hybrid combining the best features of filter cartridges and conventional filter bags. It has great depth, pore gradient, and seamless construction. This, coupled with the classic bag filter advantages of lower pressure drop, high throughput, and simple change-out, results in lower operating cost.

All FSI Polymicro® seamless filter bags have a durable multifilament mesh cover which provides structural support, abrasion resistance, and facilitates installation and removal from the filter housing. FSI's Polyloc® ring is sonically welded to the seamless filter bag providing a hermetic seal between the bag and the housing.

AVERAGE CLEAR WATER PRESSURE DROPS BOS FILTER BAGS



Flow Rate = 0.35gpm/in² @ 71°F

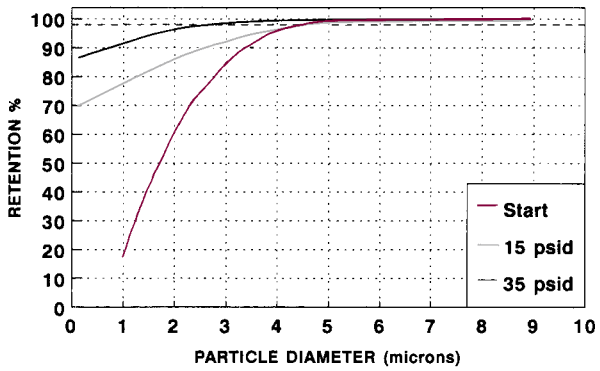
POLYMICRO® *SEAMLESS* FILTER BAGS

This bulletin contains performance charts which illustrate micron rating, 18 megohm rinse-in time, total organic carbon content, and clean filter pressure drop.

Our micron rating tests are conducted in accordance with ASTM F795-88 specifications for single pass filtration using waterborne slurries of either fine or coarse test dust. These test dust slurries, which have a consistent particle size distribution and concentration, are pumped through the test filter on a single pass. Micron ratings are based upon a particle removal efficiency of 98%. Determining the performance of a filter medium by the single-pass, constant flowrate method is a more conservative approach than the various multiple pass (Beta-ratio) tests performed by other manufacturers.

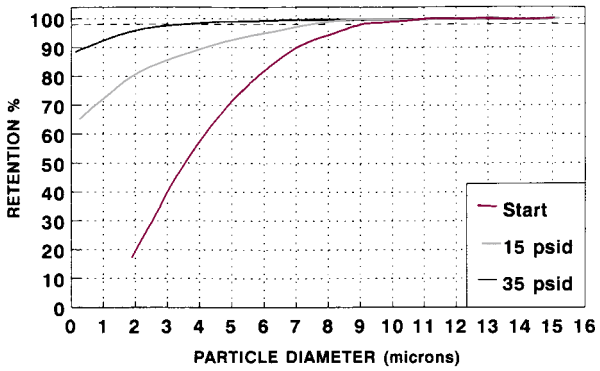
This test method is applicable to numerous filtration processes where a

FILTRATION EFFICIENCY BOS5



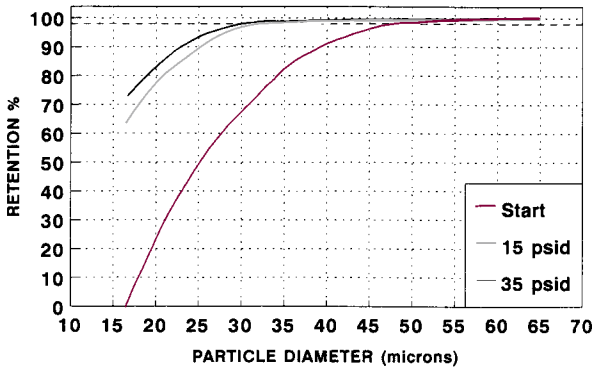
FULL SCALE FILTRATION TEST
CHALLENGE SLURRY: 1.0g 0-40 Fraction/gal @ 0.0868gpm/in²
DIRT LOADING @ TERMINAL 35psid = 0.204g/in²

FILTRATION EFFICIENCY BOS10



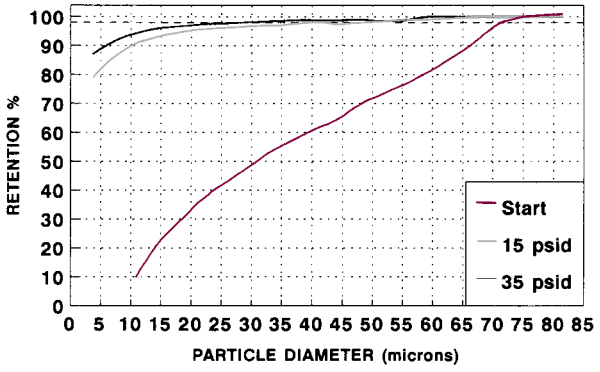
FULL SCALE FILTRATION TEST
CHALLENGE SLURRY: 1.0g 0-40 Fraction/gal @ 0.0868gpm/in²
DIRT LOADING @ TERMINAL 35psid = 0.247g/in²

FILTRATION EFFICIENCY BOS50



FULL SCALE FILTRATION TEST
CHALLENGE SLURRY: 1.5g SAECTD + 2.0g 4229E/gal @ 0.0868gpm/in²
DIRT LOADING @ TERMINAL 35psid = 0.656g/in²

FILTRATION EFFICIENCY BOS75

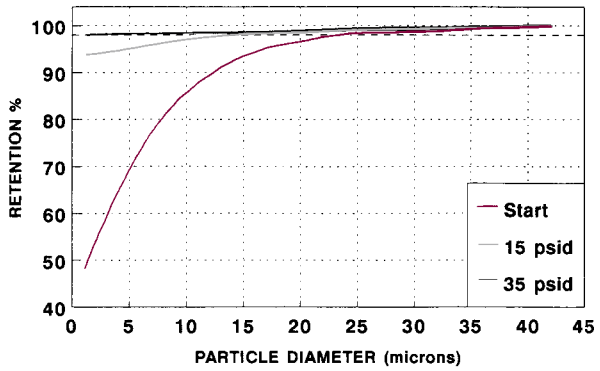


FULL SCALE FILTRATION TEST
CHALLENGE SLURRY: 2.5g SAECTD + 2.5g 4299E/gal @ 0.0868gpm/in²
DIRT LOADING @ TERMINAL 35psid = 1.097g/in²

recirculating flow condition is not present. Some examples are drum filling, tote filling, tanker loading, bottling, or in the multistage synthesis of various organic and inorganic chemicals.

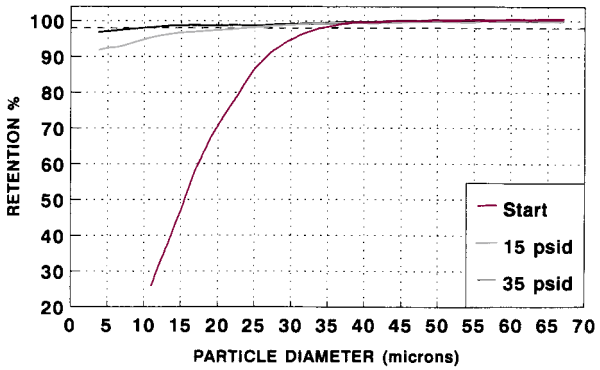
FSI establishes the micron rating of the bag on the first effluent through the media before a differential pressure is registered. We designate this on our efficiency graphs as the “start.” These tests are conducted until a terminal pressure drop of 35 PSIG is reached. In addition to determining the micron rating, this test establishes dirt loading parameters as listed in the footnotes under each efficiency graph.

FILTRATION EFFICIENCY BOS25



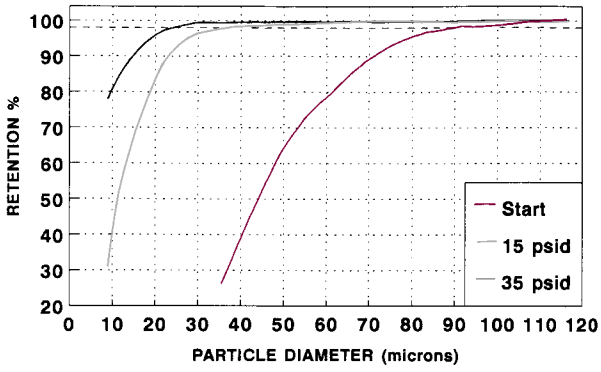
FULL SCALE FILTRATION TEST
CHALLENGE SLURRY: 1.0g SAECTD/gal @ 0.0868gpm/in²
DIRT LOADING @ TERMINAL 35psid = 0.285g/in²

FILTRATION EFFICIENCY BOS35



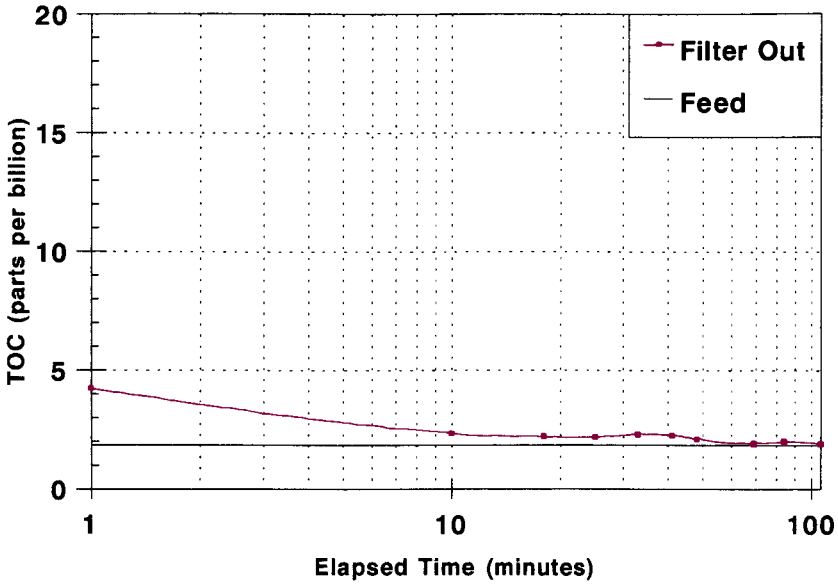
FULL SCALE FILTRATION TEST
CHALLENGE SLURRY: 1.5g SAECTD + 1.5g 4299E/gal @ 0.0868gpm/in²
DIRT LOADING @ TERMINAL 35psid = 0.367g/in²

FILTRATION EFFICIENCY BOS100



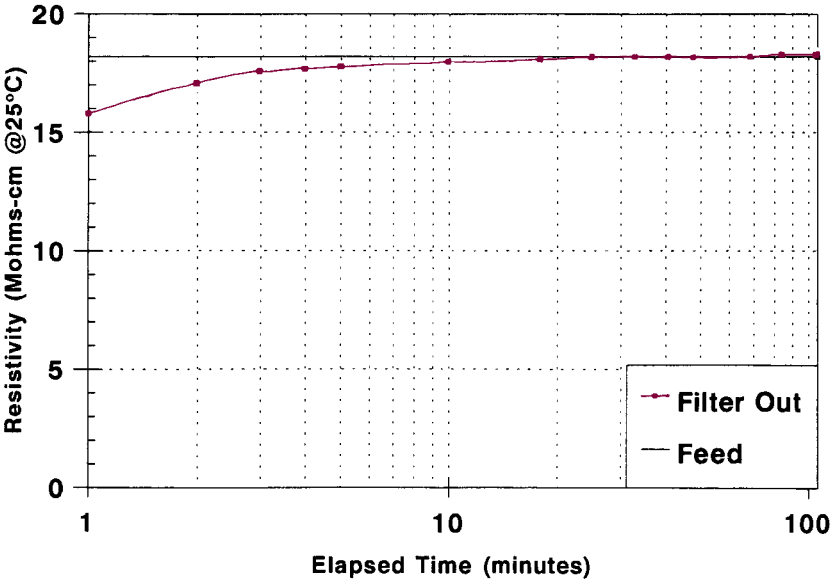
FULL SCALE FILTRATION TEST
CHALLENGE SLURRY: 10.0g <420 FLY ASH/gal @ 0.0868gpm/in²
DIRT LOADING @ TERMINAL 35psid = 1.379g/in²

(1)TOTAL ORGANIC RINSE-IN DATA



BOS Filter Material
Flow Rate = 0.0434gpm/in²

(1)RESISTIVITY RINSE-IN DATA



BOS Filter Material
Flow Rate = 0.0434gpm/in²

(1) Resistivity and total organic carbon rinse-in data was performed for FSI by an independent laboratory: Analytical Services, Inc. Essex Junction, VT 05453

FSI®
Filter Specialists, Inc.
100 Anchor Road
P.O. Box 735
Michigan City, IN 46361
219/879-3307
219/877-0632 Fax
800-348-3205

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