

Clearing The Air

February, 2008

**** *****

Volume 802

Clearing The Air is published by Process Systems & Components. All rights reserved.

Particulate Matter and Health

Particulate matter air pollution is among the most harmful of all air pollutants. When inhaled, recent research has also linked exposure to relatively low concentrations of particulate matter with premature death. Those at greatest risk are the elderly and those with pre-existing respiratory or heart disease.

Particles of special concern to the protection of lung health are PM 2.5. These are known as fine particles and mainly come from motor vehicle exhaust. Fine particles are easily inhaled deeply into the lungs where they can be absorbed into the bloodstream or remain embedded for long periods of time. A recent study showed a 17 percent increase in mortality risk in areas with higher concentrations of small particles.

Membrane RZ Fabrics Meet EPA PM 2.5 Standard

Membrane RZ® filtration media from PSC now use a new generation of PTFE (polytetrafluoroethylene) membrane that provides extended bag life, excellent product capture and superior dimensional stability at lower cost. Optimized for pulse-jet filtration, Membrane RZ® fabrics meet the PM 2.5 standard by stopping fine particles at the surface of the filter while resisting permanent clogging. Particle captured on dust collector bags made from the new fabric can be easily pulsed away

clean from the surface, restoring like-new airflow and efficiency. Depending on the membrane backing, Membrane RZ® bags can be specified for operating temperature ranges from 135°C to 260°C and chemical resistance for the broadest application window for both acids and alkalis. In addition to exceptional airflow, decreased pressure drop, Membrane RZ® filter fabric is over 50% stronger than competitive membrane fabrics and is **guaranteed not to delaminate.**

Let the Good Times Roll

PSC is proud to be celebrating 15 years in the filtration fabrics business. From day one, our employees have been dedicated to management's commitment to excellence and superior customer service. As part of the Bay Street Group, we now have a worldwide presence with production facilities on two continents.



©Copyright 2008

Process Systems & Components, Inc.

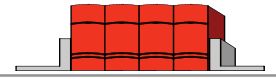
PO Box 761, Mt. Holly, NJ 08060

www.processSys.com

v. 609-261-4886

f. 609-261-6345

processSystems@rcn.com



Process Systems & Components provides a full range of branded and generic filtration fabrics to the dust collector industry. .

POLYESTER - available in woven or felt, this product is the most widely used media for dust collection, it is capable of operating up to 275 F (135 C).

POLYPROPYLENE - available in woven or felt, this product provides enhanced chemical and moisture absorption resistance, it is capable of operating up to 200 F (94 C).

HOMOPOLYMER ACRYLIC - available in woven or felt, this product provides chemical resistance similar to polypropylene while allowing operation up to 250 F (121 C).

COTTON - available in woven media only, this product is most commonly used in shaker collectors operating as silo vents, capable of operating up to 180 F (82 C).

ARAMID (Conex ®, Nomex ®) - available in woven or felt, this product performs at high temperatures while retaining strength, abrasion resistance, and dimensional stability, capable of operating up to 400 F (204 C).

PPS Ryton ®, Torcon ®, Procon ® - available in woven or felt, this product provides chemical resistance similar to polypropylene and acrylic while allowing operation up to 375 F (190 C).

P-84 ® - available in woven or felt, this product was designed to provide enhanced efficiency and maximize airflow while allowing operation at temperatures up to 500 F (260 C).

Process Systems ® Brands

- ❑ **MEMBRANE RZ ®**-all the above fabrics are available with our own PTFE laminate. This product provides the maximum chemical resistance available in bag filtration today, capable of operating up to 500 F (260 C).
 - ❑ **FIBER-LITE ®**-High filtration needle felt containing 40% micro-fibers. Provides higher filtration and longer life than standard felts.
 - ❑ **COBO-ROBO ®**- Static-dissipating needle felts.
-

Quality Control on Every Roll



It's not ready to roll until Kyle says so.

At PSC, every roll of fabric is tested for filtration, strength, density, appearance, and finish.
