**Introduction**

Tetratex® 2, a microporous filter membrane made with DuPont® Teflon® PTFE fluoropolymer resin, promises to reduce operating costs while maintaining extremely efficient particle collection. Applications include pollution control, dust collection and fluid separation.

The membrane’s structure consists of billions of small, randomly connected fibers of Teflon® PTFE. Void volume is 80 to 90%, according to the manufacturer, Donaldson Membranes, a global leader in filter media.

Donaldson supplies Tetratex® membrane or laminates thereof on virtually any woven, nonwoven or spunbonded material, including polypropylene, aramid, and polyester felts. Donaldson’s customers fabricate such laminates into filter bags or cartridges and various other products.

**Benefits Gained**

**High air flow cuts energy use.** The unique open structure of Tetratex® 2 allows up to 40% greater air flow than conventional filtration media without sacrificing collection efficiency, according to Donaldson.

**Low pressure drop adds to savings.** The non-stick properties of Teflon® PTFE promote continuous release of dust cake. This minimizes pressure drop during operation and reduces the frequency of filter cleaning and replacement.

**Reduces emissions to near zero.** The membrane’s tiny, randomly connected fibers of Teflon® PTFE create an effective pore size many times smaller than apparent pore size. The result is exceptionally fine particle retention to meet the strictest emission codes, according to Donaldson.
Withstands harsh conditions. Tetratex® 2 membranes made with Teflon® PTFE are chemically and dimensionally stable in temperature environments from -450 to 500°F (-270 to 260°C).

**Material Chosen, and Why**
DuPont® Teflon® PTFE fulfills requirements for non-stick performance, resistance to chemical attack and a very wide service-temperature range.

For more information on DuPont® Teflon®, please contact your local representative:

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