

# Smart Brief

## BHA® Protura® SB Outperforms Conventional Cartridge Media Options



We are at the forefront of technology and innovation; we develop and manufacture proprietary filter media technologies using our advanced research capabilities to ensure the latest developments are in our filters. ProTura SB, the most advanced nanofiber filtration technology is available in our pleated cartridge filter elements for use in most cartridge style dust collectors. ProTura SB is a 100% synthetic base media with a proprietary nanofiber layer applied to the collection surface that's ready to take on the most demanding applications.

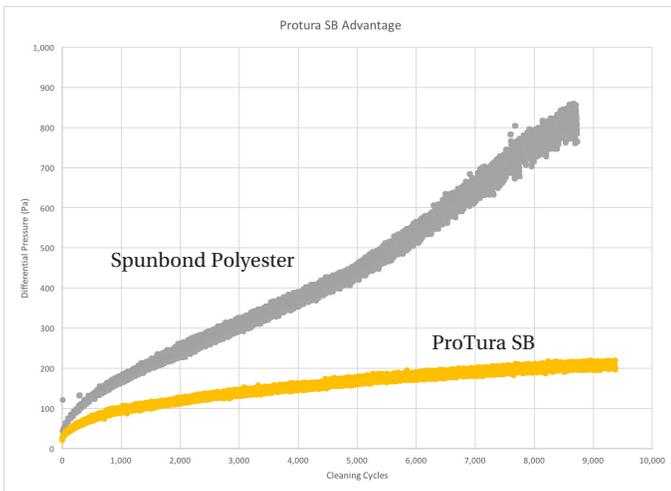
**ProTura SB advanced** nanofiber filtration technology is proven to achieve

- Higher efficiency and greater energy savings than any other standard cartridge filter media
- Cleaner air
- Longer filter life
- Greater resistance to moisture in the air stream
- Superior durability compared to standard 80/20 media (cellulose/polyester blend) media

### The Data Tells the Story.

#### Higher Efficiency and More Energy Savings.

Surface loading is the key, ProTura SB advanced nanofiber filters feature an advanced nanofiber layer of synthetic fibers so extremely fine; they are measured in fractions of a micron (nanometers). This ultra-thin layer traps dust and fume particulate on the surface of the filter before it can embed deeper in the media - leading to better cleaning efficiency with fewer pulses and significantly less compressed air use.



#### ASTM D6830-02 Testing

ProTura SB nanofiber technology stabilized at a much lower pressure drop than conventional spunbond polyester media. The operating differential pressure of a cartridge (or dust collector) is determined by two factors both of which may reduce air permeability.

- The nature of the dustcake (thickness, density, moisture, etc.)
- The amount of particulate that is trapped in the depth of the filter media

ProTura SB with an advanced nanofiber layer traps dust on the surface of the filter preventing the base media layer underneath from loading with dust. When the filter pulses the ProTura SB nanofiber layer sheds the dust easily resulting in a much lower operating differential pressure over the life of the filters.

A much lower operating differential pressure over the life of the filters is achieved because the ProTura SB nanofiber layer sheds the dust easily when the filter pulses.

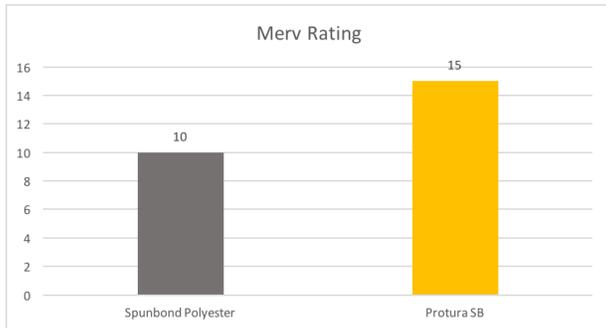


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### Cleaner Air.

Our ProTura SB advanced nanofiber filters are more efficient in capturing sub-micron particles than conventional cartridge media options. Conventional cartridge filters are not capable of capturing such small particles and often require the additional use of a costly HEPA filter to ensure a safe breathing environment.



### ASHRAE 52.2 MERV Rating

ProTura SB nanofiber technology is 85% efficient at removing particulate in the 0.3 – 1.0 micron range. ProTura SB nanofiber technology carries a MERV 15 rating base on ASHRAE Test Standard 52.2.

\* Minimum Efficiency Reporting Value (MERV) is based on ASHRAE Standard 52.2-1999, and has been deemed the most accurate scale for determining a filter's efficiency and ability to filter submicron dust particles. The MERV 15 efficiency has been tested per this standard by independent lab testing.

### Parker Media:

PE1017 – 100% synthetic base media with ProTura SB advanced nanofiber layer

### ProTura Cartridges are Available for Most Cartridge Collectors:

AAF®	Pneumafil
Airflow® Systems	Uni-Wash/Polaris
Donaldson	Robovent®
Farr APC	Steelcraft
ITW/Gema	Trion
Micro Air	Wheelabrator

