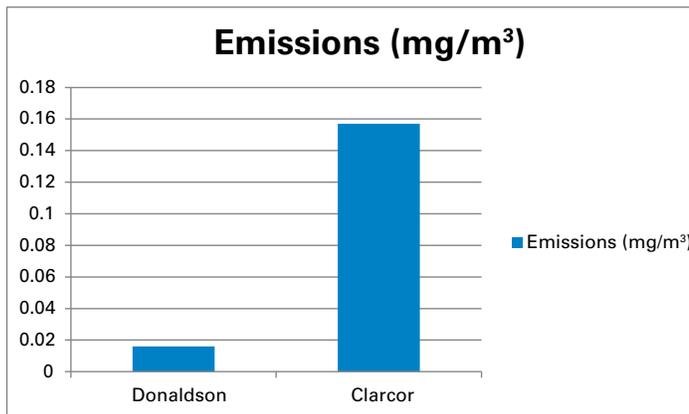


Ultra-Web® Nanofiber Media is specifically designed for performance. Its unique characteristics help deliver long filter life and cleaner air which helps save time and money. Made with an electrospinning process that produces a very fine, continuous, resilient fiber of 0.2 – 0.3 micron in diameter, Ultra-Web media forms a permanent nanofiber web with interfiber spaces that can trap dust on the surface of the media.

A full scale cartridge dust collector test done by an independent laboratory¹ highlighted significant long term performance differences between Donaldson's Ultra-Web media and Clarcor's ProTura media. The results of this gravimetric test showed that Clarcor ProTura filters allowed almost 9 times more dust to pass through to the clean air plenum than Donaldson Ultra-Web filters did.



Ultra-Web® Cartridge

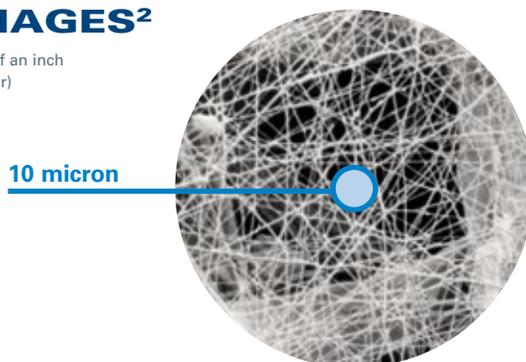


The lab test measured the dust particles that passed through the media in the primary cartridge filters and captured them with a HEPA final filter. The Ultra-Web media only allowed 0.016 mg/m³ of dust to pass through, while the ProTura media allowed 0.157 mg/m³ through to the clean air side – that's 880% more dust getting into the airstream with the Clarcor filters!

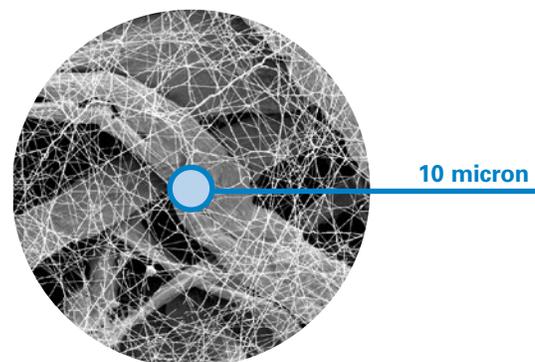
The nanofiber layer of the Ultra-Web media is optimized to provide outstanding dust capture performance. The fibers are between 0.2 and 0.3 micron in diameter, allowing for both strength and adherence, which delivers excellent filtration efficiency. Conversely, the Clarcor ProTura fibers are much smaller, at 0.07 to 0.15 micron in diameter. The fineness of the ProTura fibers results in potential breakage and detachment during use and a resulting loss in filtration efficiency.

SEM IMAGES²

1 micron = 1/25,400 of an inch
(1/1000 of a millimeter)



Ultra-Web (600x)
Nanofiber

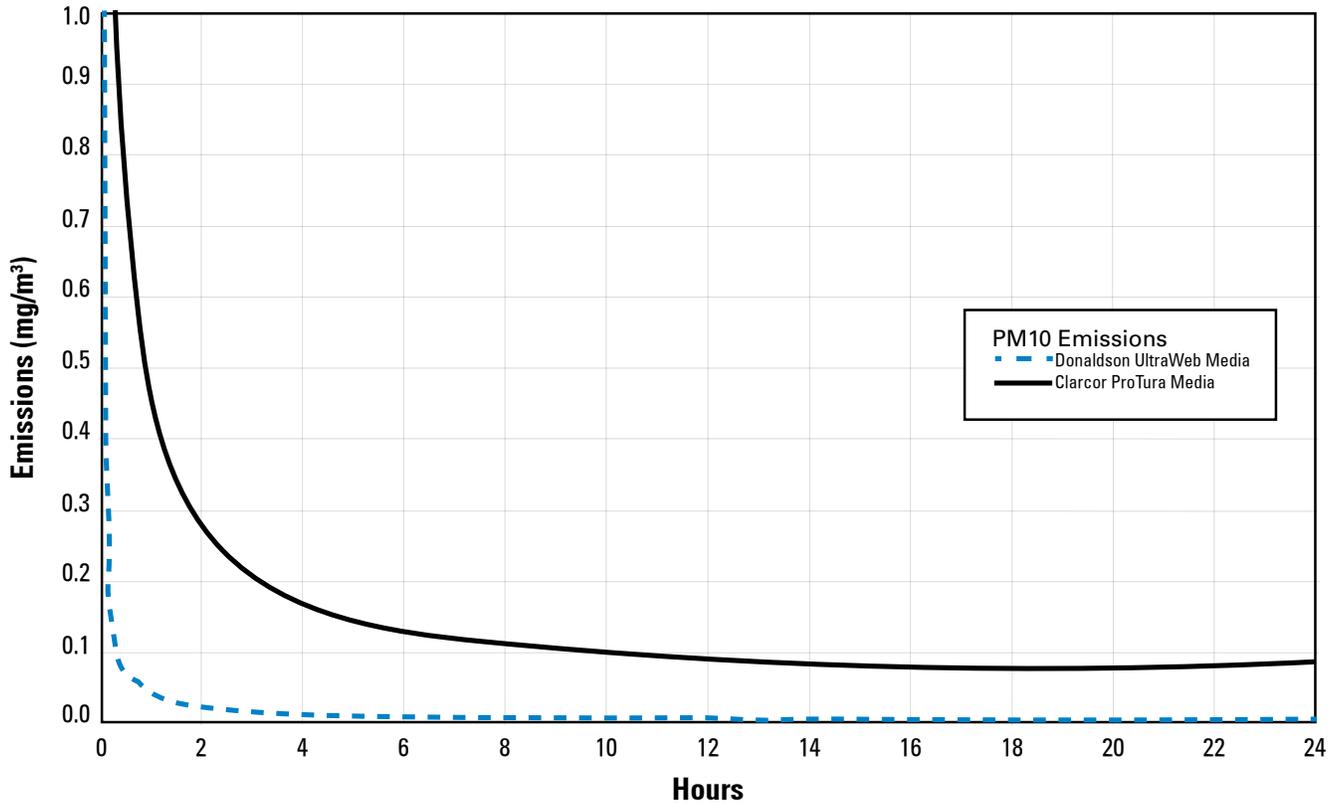


ProTura (600x)
Nanofiber

PROVEN ULTRA-WEB TECHNOLOGY THAT PERFORMS

- Superior media is more efficient in capturing submicron dust particles – MERV 15 efficiency rating per ASHRAE 52.2-2012
- Long filter life and excellent pulse cleaning due to surface loading technology
- Surface loading supports low energy cost, decrease in operating pressure drop and less compressed air use
- Available on multiple substrates to meet specific application needs

Photometric Emissions



¹Blue Heaven Technologies SPC-199P test – modified for continuous pulsing

Length of test: 24 hours

Test dust: calcium carbonate

²Scanning electron microscope imagery – Donaldson Co., Inc.

Important Notice

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, product specifications, availability and data are subject to change without notice, and may vary by region or country.



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