

Megabond Absolute

Dirt-Holding Performance vs. Competitor Melt Blown Filter Products



Objective

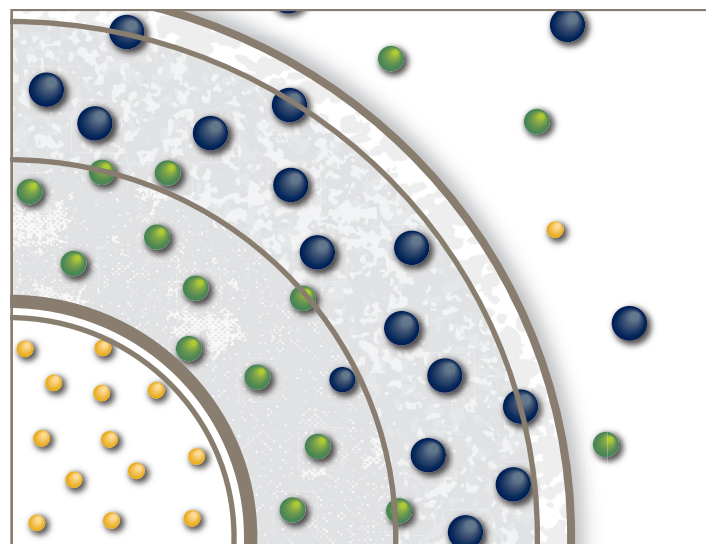
To compare the dirt-holding capacity of the new Megabond Absolute melt blown filter cartridge with similar absolute-rated products manufactured by competitors. The comparison was made using 5 micron filters.

Background

Parker Bioscience Filtration recently launched the MegaBond Absolute, a new absolute-rated melt blown filter cartridge. The product is designed with a rigid core and uses automated melt blown technology yielding a gradient pore structure.

The MegaBond Absolute is available in 0.5, 1, 3, 5, 10, 20, 30, 50, 75, and 100 microns and conforms to NSF 61 standards.

This dirt-holding test was performed using comparable products from Competitors A, B, and C who offer melt blown absolute-rated cartridges with rigid cores and gradient structures in similar micron ratings as the MegaBond Absolute.



● Small Particles ● Medium Particles ● Large Particles

Megabond Absolute Gradient Structure

Test Protocol

All elements were tested per ASTM F-795-88 Single Pass Test Method using standard SAE Test Dust in water at a flow rate of 3.5 gpm per 10-inch equivalent to a terminal pressure drop of 35 psid.

Dirt-holding capacity (DHC) data, defined as weight of contaminant added to reach terminal pressure drop, was recorded.

Removal efficiency as a function of particle size was determined using a Coulter III particle counter.



Test Data

The following charts list data for both DHC and percent efficiency removal for all elements tested.

Data Interpretation

As illustrated in Figure 1, the dirt-holding capacity of the Megabond Absolute exceeds that of tested competitors under the same test conditions. It's performance is 67.5% greater than the average of the 3 competitive cartridges.

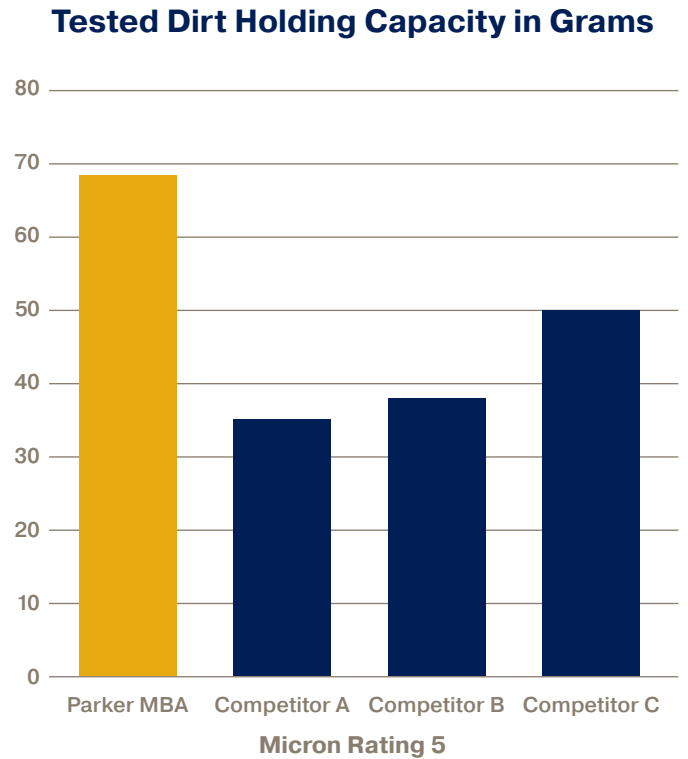


Figure 1: Comparison of DHC Values

Conclusion

When all tested elements are compared, and the results evaluated, the product with the best dirt-loading capacity of the absolute-rated cartridges is the Megabond Absolute from Parker Bioscience Filtration. In addition to its performance, the gradient structure design along with its rigid core also delivers longer service life, less change-outs and lower total cost of filtration.



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