

# Memtrex\* HFE provides cost savings for a medical chemical application

CASE STUDY | Pharmaceutical

## | Challenge

A manufacturer of a topical anesthetic was looking to improve productivity and obtain cost reductions in their chemical filtration process while maintaining the fine degree of particle removal required.

The process is a low-volume batch operation of an organic chemical that is aggressive towards most thermoplastics. Though particulate loading is low, absolute clarity is required.

Cartridge filtration is the most cost-effective way to achieve the desired fluid quality. The customer was looking not only for cost savings but improved response from the filter cartridge supplier.

## | Solution

Along with their channel partner, Veolia presented the Memtrex HFE (MHFE) filter to the customer. Chemical compatibility with the organic chemical was evaluated and determined to be a match. Along with compatibility, FDA material compliance was also required – another feature of the MHFE cartridge.

The customer agreed to trial the MHFE. After careful consideration of the necessary filtration requirements, along with unique physical dimension issues, the MHFE 0.2-micron cartridge with appropriate elastomer seals (PTFE encapsulated Viton) was chosen for the evaluation.

## | Results

The customer installed the cartridge, and, as anticipated, the filtrate quality and filter lifetime were excellent. Proper documentation was in place and met the customer's requirements, which allowed for an easy filter change from the competitor to Veolia.

The success of the application resulted in the customer placing a significant blanket order for the product with Veolia channel partner.

The highly chemically resistant Memtrex HFE coupled with Veolia's commitment to our channel partner relationships brought substantial benefit to the medical manufacturing customer.



## | Memtrex HFE Background

Memtrex HFE (Figure 1) is made entirely from fluoropolymer materials, including Halar (ECTFE) (Halar is a trademark of Ausimont.) and PTFE. Halar is an industrial-grade fluoropolymer with excellent solvent resistance. MHFE filters can withstand the harshest process conditions due to its construction using these highly resistant materials. Providing broad chemical compatibility, you can count on our filters to produce consistent, uniform process streams in your most demanding filtration applications.



**Figure 1: Memtrex HFE Filter**

Some of the features and benefits of Memtrex HFE are:

- High flow rates
- High-purity results with absolute rated efficiencies (99.9% filtration efficiency at rated pore size based on ASTM F795 and F661 test methods)
- Outstanding performance in harsh chemical environments
- Manufactured and packaged in a cleanroom environment for assured cleanliness
- Typical applications include:
  - Medical products
  - Chemicals
  - Microelectronics
  - Pharmaceuticals

Veolia's filtration products improve customers' technical performance and often reduce operating costs. If you would like more information about how Veolia filtration products can provide you with the same, please contact your Veolia account representative or visit [www.veoliawatertechnologies.com](http://www.veoliawatertechnologies.com).

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